

# **Bid Addendum Report**

## **Tilottama Municipality Office, Rupandehi**

Tilottama Municipality Office, Rupandehi  
Rupandehi  
Tilottama Municipality, Rupandehi  
Lumbini Province  
Nepal

**Addendum No: 1**

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**Invitation No: NP-DUDBC-395275-CW-RFB**

**Dated On: 08-12-2023 00:00**

## Following changes are made in the bid document

### Chapter: General Information

Sl. No.	Relavant Clause No / Name	Existing Clause	Modified Clause
1	Clarification Submission Date	Not Provided in Bid Document	2024-01-03 10:00:00

## Chapter: Bill of Quantities

1 Provisional Sum					
Procurement Item Details					
SL. No	Item Description	Unit	Quantity	Unit Rate(in NPR)	Amount(in NPR)
1	Provisional Amounts for Relocation & Additional Test for Material : Supply, deliver and erection of new high tension/low tension 11m Concrete/Steel tubular electric poles, transformer including cable and other necessary accessories all complete under the supervision of concerned department and as per instruction of Engineer.(Ref. NEA)	PS	1	3939530	3939530
2	Provisional Amounts for Relocation & Additional Test for Material : Relocation/Re-erection/Restatement of services/minor infrastructures, handpump, watersupply/sewer network of various size,excavation, laying and connection of water supply/sewer pipes network, backfilling of water supply/sewer trench and commissioning of services including purchase and installation of pipes, fittings, house connections etc all complete services as per Specification and as per Engineer's instruction (SS/SP-105)	PS	1	4952861	4952861
3	Provisional Amounts for Relocation & Additional Test for Material : Provision for carrying out additional tests for material and works as required and instructed by the Engineer as per GCC (SS/SP 502)	PS	1	500000	500000
4	Provisional Amounts for ESIA : Environmental Monitoring Works: Air quality, noise level, and water quality testing and monitoring as per instruction of Engineer. (SS/SP-111)	PS	1	510000	510000
5	Provisional Amounts for ESIA : Environmental & Social Mitigation Works: Provision of PPEs; Protection of Chautari's, Solid Waste Management Works; Safe storage of chemicals & lubricants; Public Safety (metal/wooden planks, sign boards, etc); Damage repairing of any vibration related damages; Greenery promotion works as per instruction of Engineer. (SS/SP-111)	PS	1	2450000	2450000
6	Provisional Amounts for ESIA : Public Awareness and Public Participation: Awareness on OHS, Child labour, Environmental Conservation; Activities to mitigate against SEA/SH-related risks including formulating and adopting Code of Conduct, including sections on safety of women and girls, which will be included in all contracts and signed by workers, and provision of training on the CoC provided to all workers: awareness raising to workers on mitigation risks of HIV-AIDS, other sexually transmitted diseases, and CoVID. stakeholder consultations including dissemination of project information, maintaining a functional GRM at the project level to address timely the project-related grievances of communities and other stakeholders, and Site Monitoring as per instruction of Engineer. (SS/SP-111)	PS	1	780000	780000
2 Construction work					
2.1 Road Construction Work					
2.1.1 Road Miscellaneous Works					

## 2.1.1.1 General Work

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	GENERAL Works: Contractor All Risk (CAR) - Insurance Premium for the works damage for contract work for all risk including Riot, Strike, Damage, Malicious Damage, Terrorism, Loss or Damage of Material or Equipment or Property or plant, Third Party Insurance, Personal Injury or Death (including client and consultant) all complete as specified in GCC for contract work for project period including DLP as per instruction of Engineer. (SS/SP 103)	LS	1.0			
2	GENERAL Works : Provide and establish the gender friendly labor camps & adequate drinking water facility and gender friendly toilets for labors and demolish camp site and re-instate the ground as per Specifications and as instructed by Engineer (SS/SP 111)	LS	1.0			
3	GENERAL Works : Provide, operate and maintain Quality Control Laboratory including equipment, accessories and consumables for both field testing facilities and off-site test with manpower as per Contract Documents as per Specification and instruction of Engineer all complete (SS/SP-504, 511, 503)	LS	1.0			
4	GENERAL Works: Provide OHS safety equipment's, First Aid tools and medicine for the Engineer at the site office including the labors and supervision staffs. (SS/SP 111)	LS	1.0			
5	GENERAL Works :Providing and installation of project signboards with size of 1.8*1.2 m as per Specification and instruction of Engineer (SS/SP 110)	nos	2.0			
6	GENERAL Works: Carry out routine maintenance of the existing road and sprinkling water to keep the road serviceable throughout the contract period (including DLP): all complete as per instruction of Engineer. (SS/SP 109, 2902)	LS	1.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
7	GENERAL Works : Provide photographs (Digital CD) and color prints of post card size minimum 20 nos. and Video graphs (Digital CD) of maximum 2 hour during pre-construction and each month for inclusion in periodic progress report to the satisfaction of the Engineer all complete.(SS/SP 116)	month	13.0			
8	GENERAL Works : Traffic Management, Temporary Diversion, provide maintain and remove on completion all signs, barrier staff and equipment for temporary control of traffic throughout the contract period to the Engineer's requirements. (SS/SP 104)	LS	1.0			

### 3 Construction work

#### 3.1 Day Works

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Day Works: Unskilled Labour	Day	80.0			
2	Day Works: Skilled Labour	Day	30.0			
3	Day Works: Carpenter	Day	30.0			
4	Day Works: Mason	Day	30.0			
5	Day Works: Plumber	Day	65.0			
6	Day Works: Electrician	Day	30.0			
7	Day Works: Blacksmith (Steel Fixer)	Day	30.0			
8	Day Works: Painter	Day	30.0			
9	Day Works: Supervisor	Day	30.0			
10	Day Works: Generator	Hrs	50.0			
11	Day Works: Loader	Hrs	50.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
12	Day Works: Water Pump	Hrs	50.0			
<b>4 Construction work</b>						
4.1 SITE CLEARANCE						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	SITE CLEARANCE: Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable Material at suitable location to be used or auctioned, including lifts and lead, removal and disposal of top organic soil not exceeding 150 mm in thickness all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 201)	Sqm.	7360.0			
2	SITE CLEARANCE: Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable Material with all lifts and lead and earth filling in the depression/pit. (300mm - 600mm diameter.) all complete as per instruction of engineer. (SS/SP 201)	no.	4.0			
3	SITE CLEARANCE: Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable Material with all lifts and lead and earth filling in the depression/pit. (600mm - 900mm diameter.) all complete as per instruction of engineer. (SS/SP 201)	no.	2.0			
4	SITE CLEARANCE: Dismantling of existing structures comprising of Reinforced Cement Concrete including scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead all complete as per drawing, Specification and instruction of Engineer. (SS/SP 202)	cum	114.36			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
5	SITE CLEARANCE: Dismantling of existing structures comprising of Plain/Plum Cement Concrete including scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 202)	cum	53.46			
6	SITE CLEARANCE: Dismantling of flexible pavements and disposal of dismantled material at proper place, stacking serviceable and unserviceable material separately including all lead and lift all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 202)	cum	400.0			
7	SITE CLEARANCE: Dismantling Brick/Tile work in cement mortar and disposal of dismantled material at proper place, stacking serviceable and unserviceable material separately including all lead and lift all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 202)	cum	32.51			
8	SITE CLEARANCE: Dismantling Random Rubble Stone masonry work in cement mortar and disposal of dismantled material at proper place, stacking serviceable and unserviceable material separately including all lead and lift all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 202)	cum	158.4			
9	SITE CLEARANCE: Removal of telephone/high tension and low tension electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts, lead and stacking the serviceable and unserviceable material separately all complete as per Drawing, Specification and instruction of Engineer. (SS DOR 202)	Nos.	46.0			
<b>5 Construction work</b>						
5.1 Drain Works						

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	RCC Side Drain:Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved materials and disposal of excess materials at proper place including all lead and lift all complete as per Technical Specifications and instruction of Engineer. (SS/SP 907)	cum	1084.13			
2	RCC Side Drain:Providing and laying of Plain Cement Concrete M15 including necessary formworks complete all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 1804 & 2007)	cum	266.35			
3	RCC Side Drain: Providing and laying of Reinforced Cement Concrete (M20) in structure all complete as per Drawing and Technical Specification and instruction of Engineer. (SS/SP 2007)	cum	1272.57			
4	RCC Side Drain : Providing and fixing of HYSD reinforcement of various diameter, works including straightening, cutting, bending and tying the bars with binding wire (binding wires shall not be measured separately) including all waste and cut pieces, provision for adequate numbers of spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in intended position all completer as per Drawing, Technical Specification and as per instruction of Engineer. (SS/SP 2014)	Mt	79.92			
5	RCC Side Drain:Supplying and laying centering, shuttering of various pattern formworks (F2 finish) with ply wood & all kind of vertical and horizontal supports for all kinds of RCC works for foundations, sub-structure and super-structure including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints properly and de-shuttering all complete as per Drawing, Specifications and instructions of the Engineer. (SS/SP 1804,1805)	Sqm	11764.84			



Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
6	RCC Side Drain:Supply, excavation, laying and jointing and backfilling and compaction for 110 mm HDPE 6kg\cm2 including fittings to cater the surface water from tick drain to the side drain including transportation with all lead and lift. All complete as per Drawing, Specification and instruction of the Engineer. (SS/SP 701)	Rm	891.7			
7	RCC Side Drain : Providing and fixing cover of MS Grating with frame at required level including dismantling, concreting, welding, fabricating etc. all complete as per Drawing Specification and instruction of Engineers. (SS/SP 2014)	Nos.	740.0			
8	Tick Drain: Providing and laying of Plain Cement Concrete (M20) including necessary formworks in structure all complete as per Drawing and Technical Specification and instruction of Engineer. (SS/SP 1804 & 2007)	cum	87.75			

## 6 Construction work

### 6.1 Footpath

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Footpath: Earth filling including compaction in layers not exceeding 150mm compaction depth, watering and necessary haulage etc. as per specification, all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 908)	cum	542.16			
2	Footpath: Providing and filling sand at foundation all complete as per Drawing & Technical Specification. (SS/SP 908)	cum	162.65			
3	Footpath: Providing and laying Granular Sub-Base on prepared surface, mixing at OMC, and compacting to achieve the desired density, complete as per Drawing and Technical Specifications and instruction of Engineer. (SS/SP 1201)	cum	1626.48			
4	Footpath: Providing and laying M25 grade 60mm thick cement concrete (Interlocking Block) over 50mm thick stone dust in perfect line & level all complete as per Drawings, Specifications and the instructions of the Engineer. (DUDBC)	Sqm	3949.6			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
5	Footpath: Provide & laying disabled friendly tactile paving which will enable easy movement for the physically challenged in perfect line & level, all complete as per Drawing, Specification and instruction of Engineers. (DUDBC)	Sqm	1506.0			
6	Footpath: Tubular Steel Railing on Precast RCC posts with painting 1.2m High above ground Level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 grade RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe, fixed 2 meter center to center, complete as per Drawing and Technical Specifications and instruction of Engineers. (SS/SP 3105)	Sqm	920.0			
7	Footpath:Supply, fixing wooden plank bench of 400mm seat with 400 mm back rest plank on 50mm X 50mm MS square hollow pipe at 1500mm c/c for supporting bench, 3 rows for supporting back rest plank, and 6 nos. for raising bench 400 mm above GL including necessary nut bolts, welding, painting, furnishing all complete as per Drawing and instruction of Engineer. (SS/SP 2002,2003,2302 & 2303)	Rm	10.0			

## 7 Construction work

### 7.1 Carriageway

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Carriageway: Road Way Excavation in all types of soil as per drawing and technical Specifications including removal of stumps and other deleterious matter and disposal of unserviceable materials all lifts and lead as per Drawing and instruction of the Engineer. (SS/SP 905)	cum	1253.91			
2	Carriageway: Providing, laying, spreading and compacting embankment with roadway cutting material, foundation cutting material and compact to the required density as per Drawing, Technical Specifications and instruction of Engineer. (SS/SP 905, 909)	cum	626.96			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
3	Carriageway: Providing, laying, spreading and compacting embankment with material from borrow pit and compact to the required density as per Drawing, Technical Specifications and instruction of Engineer. (SS/SP 905, 909)	cum	4754.89			
4	Carriageway: Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 500 mm, mixed with water at OMC and then compacted by rolling so as to achieve dry density as per Drawing, Technical Specifications and instruction of Engineer. (SS/SP 1003, 1005)	cum	8433.96			
5	Carriageway: Providing and laying Granular Sub-Base on prepared surface, mixing at OMC, and compacting to achieve the desired density, complete as per Drawing and Technical Specifications and instruction of Engineer. (SS/SP 1201)	cum	2693.96			
6	Carriageway: Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of Base Course (by using Machine) as per Drawing and Technical Specification and instruction of Engineer. (SS/SP 1204)	cum	2281.79			
7	Carriageway: Providing and applying Prime Coat with hot bitumen (VG10) (including cutter) on prepared surface of granular base including cleaning of road surface and spraying by mechanical means all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 1302)	lit	13575.98			
8	Carriageway: Providing and applying Tack Coat with hot bitumen (VG10) at specified rate on the prepared non-bituminous surfaces by mechanical means including cleaning all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 1302)	lit	9127.16			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
9	Carriageway: Providing and laying dense bituminous macadam using crushed aggregates of specified grading, premixed with bituminous binder and filler as per Drawing and Technical Specifications. (SS/SP 1302)	cum	696.85			
10	Carriageway: Providing and laying Bituminous Concrete/ Asphalt Concrete using crushed aggregates of specified grading, premixed with bituminous binder (VG30) and filler all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 1309)	cum	608.48			
11	Carriageway: Providing and laying of M20 precast cement concrete kerb (Mountable and non mountable) with 12 mm thick 1:3 cement sand mortar bedding and joints including foundation excavation levelling all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 1401)	rm	3680.0			
12	Carriageway: Providing and laying of Plain Cement Concrete M15 including necessary formworks all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 2007 & 1804)	cum	63.48			
13	Carriageway: Road Marking with hot applied thermoplastic compound with reflectorizing glass beads on bitunious surface, on smooth surface (Similar to asphalt concrete and rigid pavement): Providing and laying of hot applied thermoplastic compound at least 2mm thick including reflectorizing glass beads as per DOR Traffic Sign Manual/Specification. The finished surface to be level, uniform and free from streaks and holes all complete as per instruction of Engineer. (SS/SP 1504)	sqm	709.5			
14	Carriageway: Providing and painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing, Technical Specifications and instruction of Engineer. (SS/SP 1501)	sqm	920.0			
<b>8 Construction work</b>						
8.1 Road Furniture and Sign						

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Road Furniture and Sign: Providing and fixing of retro-reflectrized warning, mandatory and informatory sign as per Specification clause 1501 made of high intensity grade sheeting, fixed over aluminium sheeting, 1.5 mm thick supported on a 50 mm internal dia steel tube or mild steel angle iron post 75mmX 40 mm X6 mm firmly fixed to the ground by means of properly designed foundation with M15/40 grade cement concrete 30 cm X 30 cm, 30 cm below ground level or as per Drawing, Technical Specifications and instruction of Engineer. Single Post 90 cm height equilateral triangle (SS/SP 1501)	Nos	17.0			
2	Road Furniture and Sign: Providing and fixing of retro-reflectrized warning, mandatory and informatory sign as per Specification clause 1501 made of high intensity grade sheeting, fixed over aluminium sheeting, 1.5 mm thick supported on a 50 mm internal dia steel tube or mild steel angle iron post 75mmX 40 mm X6 mm firmly fixed to the ground by means of properly designed foundation with M15/40 grade cement concrete 30 cm X 30 cm, 30 cm below ground level or as per Drawing, Technical Specifications and instruction of Engineer. Single Post 60 cm circular (SS DOR 1501)	Nos	20.0			
3	Road Furniture and Sign: Providing and fixing of retro-reflectrized warning, mandatory and informatory sign as per Specification clause 1501 made of high intensity grade sheeting, fixed over aluminium sheeting, 1.5 mm thick supported on a 50 mm internal dia steel tube or mild steel angle iron post 75mmX 40 mm X6 mm firmly fixed to the ground by means of properly designed foundation with M15/40 grade cement concrete 30 cm X 30 cm, 30 cm below ground level or as per Drawing, Technical Specifications and instruction of Engineer. Single Post 80 cm x 60 cm rectangular (SS/SP 1501)	Nos	16.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
4	Road Furniture and Sign: Standard kilometer marker stone (placed at each km distance) all complete as per Drawing, Specification and instruction of Engineer. SS/SP 1506	Nos	2.0			
5	Road Furniture and Sign: Providing and erecting street light mounted on a 9m Hot Deep Galvanized pole with diameter of pole section 5" for bottom 5m, 4" for middle 2m and 3" for top 2m of standard Specifications for street lighting, overhang on both sides if fixed in the median and on one side if fixed on the footpath, fitted with 50 watt white emitting diod (W-LED) with auto on/off including Cable and necessary accessories fixed firmly in concrete foundation as per design, Drawing, Technical Specifications and instruction of Engineer.	Nos	92.0			

## 9 Construction work

### 9.1 Retaining Wall

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Retaining Wall : Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved materials and disposal of excess materials at proper place including all lead and lift all complete as per Technical Specifications and instruction of Engineer. (SS/SP 907)	cum	1980.57			
2	Retaining Wall : Providing and laying of Plain Cement Concrete M15 including necessary formworks complete all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 1804 & 2007)	cum	171.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
3	Retaining Wall : Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	3618.0			

**10 Construction work**

10.1 Ramp

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Ramp: Providing and laying Granular Sub-Base on prepared surface, mixing at OMC, and compacting to achieve the desired density, complete as per Drawing and Technical Specifications and instruction of Engineer. (SS/SP 1201)	cum	78.75			
2	Ramp: Providing and laying of Plain Cement Concrete M15 including necessary formworks complete all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 1804 & 2007)	cum	11.25			

**11 Construction work**

11.1 Cross Drainage Structures

11.1.1 Box Culvert (2m X 1.05m Single Cell)

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Box Culvert: Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved Materials and disposal of excess materials at proper place all complete as per Technical specifications and instruction of engineer. (SS/SP 907)	cum	104.13			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Box Culvert: Compacting original ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2602, 2603, 2608)	cum	62.38			
3	Box Culvert: Providing and laying of hand pack Stone soling with stones and packing with smaller stone on prepared surface all complete as per drawing, specification and instruction of engineer. (SS DOR 2416 & 2608)	cum	130.46			
4	Box Culvert: Providing and laying of Plain/Reinforced Cement Concrete of M15 grade complete including necessary formwork as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 1804 & 2007)	cum	8.96			
5	Box Culvert: Providing and laying of M20 Plain Cement Concrete all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	2.19			
6	Box Culvert: Providing and laying of Reinforced/Pre-stressed cement concrete in sub structure RCC Grade M25/20 and all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	123.2			
7	Box Culvert: Providing and fixing of HYSD reinforcement of various diameter , works including straightening, cutting, bending and tying the bars with binding wire (binding wires shall not be measured separately ) including all waste and cut pieces , provision for adequate numbers of spacers, chairs, providing and placing cement mortar(1:1) cover blocks to keep the bars in intended position as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2014)	Mt	4.84			



Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Box Culvert: Supplying and laying centering, shuttering of various pattern formworks with ply wood & all kind of vertical and horizontal supports for all kinds of RCC works for foundations, sub-structure and super-structure including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints properly and De-shuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer. (SS DOR 1804, 1805)	sqm	378.62			
9	Box Culvert: Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	3.6			
10	Box Culvert: Providing and laying stone boulder apron on river bed for protection against scour with boulders/stone weighing not less than 40 kg each complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 909, 910)	cum	8.4			
11	Box Culvert: Providing and laying Gabion structure for retaining earth with diaphragm including rolling, cutting, weaving, placing, laying sides and diaphragms with binding wire and filling boulders all complete as per Drawing, Technical Specifications and instruction of engineer. Mesh wire- 10 Swg(0.0615 kg/m), Seldedge Wire 8 Swg (0.1057 kg/m), binding wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100 mm X 120 mm. (SS/SP 2401, 2402)	sqm	16.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
12	Box Culvert: Tubular Steel Railing on Precast RCC posts 1.2m High above ground Level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 grade RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe , fixed 2 meter center to , complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3105)	rm	20.0			
13	Box Culvert: Providing and Painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	sqm	11.0			
14	Box Culvert: Providing and laying weep holes in Brick dry/Plain/ Reinforced concrete abutment, wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V :20H towards as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	rm	30.0			
15	Box Culvert: Providing and installation of Drainage spout and Collection Pit including galvanized plate, drain pipe, M. S. flats all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3107)	no.	4.0			

## 12 Construction work

### 12.1 Cross Drainage Structures

#### 12.1.1 Box Culvert (2m X 1.65m Double Cell)

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Box Culvert: Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved Materials and disposal of excess materials at proper place all complete as per Technical specifications and instruction of engineer. (SS/SP 907)	cum	158.02			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Box Culvert: Compacting original ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2602, 2603, 2608)	cum	71.47			
3	Box Culvert: Providing and laying of hand pack Stone soling with stones and packing with smaller stone on prepared surface all complete as per drawing, specification and instruction of engineer. (SS DOR 2416 & 2608)	cum	148.64			
4	Box Culvert: Providing and laying of Plain/Reinforced Cement Concrete of M15 grade complete including necessary formwork as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 1804 & 2007)	cum	10.77			
5	Box Culvert: Providing and laying of M20 Plain Cement Concrete all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	2.19			
6	Box Culvert: Providing and laying of Reinforced/Pre-stressed cement concrete in sub structure RCC Grade M25/20 and all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	184.15			
7	Box Culvert: Providing and fixing of HYSD reinforcement of various diameter , works including straightening, cutting, bending and tying the bars with binding wire (binding wires shall not be measured separately ) including all waste and cut pieces , provision for adequate numbers of spacers, chairs, providing and placing cement mortar(1:1) cover blocks to keep the bars in intended position as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2014)	Mt	7.23			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Box Culvert: Supplying and laying centering, shuttering of various pattern formworks with ply wood & all kind of vertical and horizontal supports for all kinds of RCC works for foundations, sub-structure and super-structure including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints properly and De-shuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer. (SS DOR 1804, 1805)	sqm	548.6			
9	Box Culvert: Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	3.6			
10	Box Culvert: Providing and laying stone boulder apron on river bed for protection against scour with boulders/stone weighing not less than 40 kg each complete as per Drawing, Technical Specifications and instruction of engineer. . (SS/SP 2416)	cum	8.4			
11	Box Culvert: Providing and laying Gabion structure for retaining earth with diaphragm including rolling, cutting weaving , placing, laying sides and diaphragms with binding wire and filling boulders all complete as per Drawing, Technical Specifications and instruction of engineer Mesh wire- 10 Swg(0.0615 kg/m), Selvege Wire 8 Swg ( 0.1057 kg/m), binding wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100 mm X 120 mm. (SS/SP 2401, 2402)	sqm	16.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
12	Box Culvert: Tubular Steel Railing on Precast RCC posts 1.2m High above ground Level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 grade RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe , fixed 2 meter center to , complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3105)	rm	24.0			
13	Box Culvert: Providing and Painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	sqm	13.0			
14	Box Culvert: Providing and laying weep holes in Brick dry/Plain/ Reinforced concrete abutment, wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V :20H towards as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 1501)	rm	30.0			
15	Box Culvert: Providing and installation of Drainage spout and Collection Pit including galvanized plate, drain pipe, M. S. flats all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3107)	no.	4.0			

### 13 Construction work

#### 13.1 Cross Drainage Structures

##### 13.1.1 Box Culvert (3.5m X 1.55m Double Cell)

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Box Culvert: Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved Materials and disposal of excess materials at proper place all complete as per Technical specifications and instruction of engineer. (SS/SP 907)	cum	219.78			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Box Culvert: Compacting original ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2602, 2603, 2608)	cum	96.22			
3	Box Culvert: Providing and laying of hand pack Stone soling with stones and packing with smaller stone on prepared surface all complete as per drawing, specification and instruction of engineer. (SS DOR 2416 & 2608)	cum	201.07			
4	Box Culvert: Providing and laying of Plain/Reinforced Cement Concrete of M15 grade complete including necessary formwork as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 1804 & 2007)	cum	16.05			
5	Box Culvert: Providing and laying of M20 Plain Cement Concrete all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	3.82			
6	Box Culvert: Providing and laying of Reinforced/Pre-stressed cement concrete in sub structure RCC Grade M25/20 and all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	219.77			
7	Box Culvert: Providing and fixing of HYSD reinforcement of various diameter , works including straightening, cutting, bending and tying the bars with binding wire (binding wires shall not be measured separately ) including all waste and cut pieces , provision for adequate numbers of spacers, chairs, providing and placing cement mortar(1:1) cover blocks to keep the bars in intended position as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2014)	Mt	8.63			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Box Culvert: Supplying and laying centering, shuttering of various pattern formworks with ply wood & all kind of vertical and horizontal supports for all kinds of RCC works for foundations, sub-structure and super-structure including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints properly and De-shuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer. (SS DOR 1804, 1805)	sqm	620.55			
9	Box Culvert: Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	6.3			
10	Box Culvert: Providing and laying stone boulder apron on river bed for protection against scour with boulders/stone weighing not less than 40 kg each complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 909, 910)	cum	13.02			
11	Box Culvert: Providing and laying Gabion structure for retaining earth with diaphragm including rolling, cutting, weaving, placing, laying sides and diaphragms with binding wire and filling boulders all complete as per Drawing, Technical Specifications and instruction of engineer. Mesh wire- 10 Swg(0.0615 kg/m), Seldedge Wire 8 Swg (0.1057 kg/m), binding wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100 mm X 120 mm. (SS/SP 2401, 2402)	sqm	16.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
12	Box Culvert: Tubular Steel Railing on Precast RCC posts 1.2m High above ground Level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 grade RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe , fixed 2 meter center to , complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3105)	rm	30.0			
13	Box Culvert: Providing and Painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	sqm	16.0			
14	Box Culvert: Providing and laying weep holes in Brick dry/Plain/ Reinforced concrete abutment, wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V :20H towards as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	rm	30.0			
15	Box Culvert: Providing and installation of Drainage spout and Collection Pit including galvanized plate, drain pipe, M. S. flats all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3107)	no.	4.0			

#### 14 Construction work

##### 14.1 Cross Drainage Structures

##### 14.1.1 Box Culvert (3.5m X 1.5m Double Cell)

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Box Culvert: Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved Materials and disposal of excess materials at proper place all complete as per Technical specifications and instruction of engineer. (SS/SP 907)	cum	153.75			



Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Box Culvert: Compacting original ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2602, 2603, 2608)	cum	77.38			
3	Box Culvert: Providing and laying of hand pack Stone soling with stones and packing with smaller stone on prepared surface all complete as per drawing, specification and instruction of engineer. (SS DOR 2416 & 2608)	cum	163.38			
4	Box Culvert: Providing and laying of Plain/Reinforced Cement Concrete of M15 grade complete including necessary formwork as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 1804 & 2007)	cum	12.29			
5	Box Culvert: Providing and laying of M20 Plain Cement Concrete all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	3.82			
6	Box Culvert: Providing and laying of Reinforced/Pre-stressed cement concrete in sub structure RCC Grade M25/20 and all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	146.37			
7	Box Culvert: Providing and fixing of HYSD reinforcement of various diameter , works including straightening, cutting, bending and tying the bars with binding wire (binding wires shall not be measured separately ) including all waste and cut pieces , provision for adequate numbers of spacers, chairs, providing and placing cement mortar(1:1) cover blocks to keep the bars in intended position as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2014)	Mt	5.75			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Box Culvert: Supplying and laying centering, shuttering of various pattern formworks with ply wood & all kind of vertical and horizontal supports for all kinds of RCC works for foundations, sub-structure and super-structure including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints properly and De-shuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer. (SS DOR 1804, 1805)	sqm	451.13			
9	Box Culvert: Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	6.3			
10	Box Culvert: Providing and laying stone boulder apron on river bed for protection against scour with boulders/stone weighing not less than 40 kg each complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 909, 910)	cum	12.9			
11	Box Culvert: Providing and laying Gabion structure for retaining earth with diaphragm including rolling, cutting weaving, placing, laying sides and diaphragms with binding wire and filling boulders all complete as per Drawing, Technical Specifications and instruction of engineer Mesh wire- 10 Swg(0.0615 kg/m), Selvege Wire 8 Swg ( 0.1057 kg/m), binding wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100 mm X 120 mm. (SS/SP 2401, 2402)	sqm	16.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
12	Box Culvert: Tubular Steel Railing on Precast RCC posts 1.2m High above ground Level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 grade RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe , fixed 2 meter center to , complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3105)	rm	23.0			
13	Box Culvert: Providing and Painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	sqm	13.0			
14	Box Culvert: Providing and laying weep holes in Brick dry/Plain/ Reinforced concrete abutment, wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V :20H towards as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	rm	30.0			
15	Box Culvert: Providing and installation of Drainage spout and Collection Pit including galvanized plate, drain pipe, M. S. flats all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3107)	no.	4.0			

### 15 Construction work

#### 15.1 Cross Drainage Structures

##### 15.1.1 Box Culvert (3m X 1.5m Single Cell)

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Box Culvert: Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved Materials and disposal of excess materials at proper place all complete as per Technical specifications and instruction of engineer. (SS/SP 907)	cum	142.53			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Box Culvert: Compacting original ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2602, 2603, 2608)	cum	72.38			
3	Box Culvert: Providing and laying of hand pack Stone soling with stones and packing with smaller stone on prepared surface all complete as per drawing, specification and instruction of engineer. (SS DOR 2416 & 2608)	cum	152.41			
4	Box Culvert: Providing and laying of Plain/Reinforced Cement Concrete of M15 grade complete including necessary formwork as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 1804 & 2007)	cum	11.18			
5	Box Culvert: Providing and laying of M20 Plain Cement Concrete all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	3.28			
6	Box Culvert: Providing and laying of Reinforced/Pre-stressed cement concrete in sub structure RCC Grade M25/20 and all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	140.58			
7	Box Culvert: Providing and fixing of HYSD reinforcement of various diameter , works including straightening, cutting, bending and tying the bars with binding wire (binding wires shall not be measured separately ) including all waste and cut pieces , provision for adequate numbers of spacers, chairs, providing and placing cement mortar(1:1) cover blocks to keep the bars in intended position as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2014)	Mt	5.52			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Box Culvert: Supplying and laying centering, shuttering of various pattern formworks with ply wood & all kind of vertical and horizontal supports for all kinds of RCC works for foundations, sub-structure and super-structure including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints properly and De-shuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer. (SS DOR 1804, 1805)	sqm	437.53			
9	Box Culvert: Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	5.4			
10	Box Culvert: Providing and laying stone boulder apron on river bed for protection against scour with boulders/stone weighing not less than 40 kg each complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 909, 910)	cum	11.4			
11	Box Culvert: Providing and laying Gabion structure for retaining earth with diaphragm including rolling, cutting weaving, placing, laying sides and diaphragms with binding wire and filling boulders all complete as per Drawing, Technical Specifications and instruction of engineer Mesh wire- 10 Swg(0.0615 kg/m), Selvege Wire 8 Swg ( 0.1057 kg/m), binding wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100 mm X 120 mm. (SS/SP 2401, 2402)	sqm	16.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
12	Box Culvert: Tubular Steel Railing on Precast RCC posts 1.2m High above ground Level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 grade RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe , fixed 2 meter center to , complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3105)	rm	22.0			
13	Box Culvert: Providing and Painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	sqm	12.0			
14	Box Culvert: Providing and laying weep holes in Brick dry/Plain/ Reinforced concrete abutment, wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V :20H towards as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	rm	30.0			
15	Box Culvert: Providing and installation of Drainage spout and Collection Pit including galvanized plate, drain pipe, M. S. flats all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3107)	no.	4.0			

## 16 Construction work

### 16.1 Cross Drainage Structures

#### 16.1.1 Box Culvert (3m X 1.7m Single Cell)

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Box Culvert: Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved Materials and disposal of excess materials at proper place all complete as per Technical specifications and instruction of engineer. (SS/SP 907)	cum	151.19			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Box Culvert: Compacting original ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2602, 2603, 2608)	cum	72.38			
3	Box Culvert: Providing and laying of hand pack Stone soling with stones and packing with smaller stone on prepared surface all complete as per drawing, specification and instruction of engineer. (SS DOR 2416 & 2608)	cum	152.41			
4	Box Culvert: Providing and laying of Plain/Reinforced Cement Concrete of M15 grade complete including necessary formwork as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 1804 & 2007)	cum	11.18			
5	Box Culvert: Providing and laying of M20 Plain Cement Concrete all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	3.28			
6	Box Culvert: Providing and laying of Reinforced/Pre-stressed cement concrete in sub structure RCC Grade M25/20 and all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2007)	cum	143.15			
7	Box Culvert: Providing and fixing of HYSD reinforcement of various diameter , works including straightening, cutting, bending and tying the bars with binding wire (binding wires shall not be measured separately ) including all waste and cut pieces , provision for adequate numbers of spacers, chairs, providing and placing cement mortar(1:1) cover blocks to keep the bars in intended position as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 2014)	Mt	5.62			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Box Culvert: Supplying and laying centering, shuttering of various pattern formworks with ply wood & all kind of vertical and horizontal supports for all kinds of RCC works for foundations, sub-structure and super-structure including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints properly and De-shuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer. (SS DOR 1804, 1805)	sqm	451.62			
9	Box Culvert: Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	5.4			
10	Box Culvert: Providing and laying stone boulder apron on river bed for protection against scour with boulders/stone weighing not less than 40 kg each complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 909, 910)	cum	11.4			
11	Box Culvert: Providing and laying Gabion structure for retaining earth with diaphragm including rolling, cutting weaving, placing, laying sides and diaphragms with binding wire and filling boulders all complete as per Drawing, Technical Specifications and instruction of engineer Mesh wire- 10 Swg(0.0615 kg/m), Selvege Wire 8 Swg ( 0.1057 kg/m), binding wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100 mm X 120 mm. (SS/SP 2401, 2402)	sqm	16.0			



Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
12	Box Culvert: Tubular Steel Railing on Precast RCC posts 1.2m High above ground Level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 grade RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe , fixed 2 meter center to , complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3105)	rm	22.0			
13	Box Culvert: Providing and Painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	sqm	12.0			
14	Box Culvert: Providing and laying weep holes in Brick dry/Plain/ Reinforced concrete abutment, wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V :20H towards as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3109)	rm	30.0			
15	Box Culvert: Providing and installation of Drainage spout and Collection Pit including galvanized plate, drain pipe, M. S. flats all complete as per Drawing, Technical Specifications and instruction of engineer. (SS/SP 3107)	no.	4.0			

### 17 Construction work

#### 17.1 Cross Drainage Structures

##### 17.1.1 Pipe Culvert (90 cm dia) without earth cushion

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Pipe Culvert (900 mm dia): Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved Materials and disposal of excess materials at proper place all complete as per Technical specifications and instruction of engineer. (SS DOR 907)	cum	315.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Pipe Culvert (900 mm dia): Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	115.0			
3	Pipe Culvert (900 mm dia): Providing and laying of hand pack Stone soling with 150mm thick stones and packing with smaller stone on prepared surface all complete as per drawing, specification and instruction of engineer. (SS/SP 2416 & 2608)	cum	15.0			
4	Pipe Culvert (900 mm dia): Providing and laying weep holes in brick dry/plain/reinforced concrete abutment, return wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V:20H towards Drawing face complete as per Drawing, Technical Specifications and instruction of Engineer. SS/SP 3109	rm	42.0			
5	Pipe Culvert (900 mm dia): Providing and laying reinforced cement concrete NP3 hume pipe (900mm diameter) flush jointed pipe for culverts including fixing with cement mortar 1:2 all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 701)	rm	50.0			
6	Pipe Culvert (900 mm dia): Providing and laying gabion structure for retaining earth with diaphragm including rolling, cutting weaving, placing, laying sides and diaphragms with binding wire and filling boulders all complete as per Drawing, Specification and instruction of Engineer. (Mesh Wire- 10 Swg (0.0615 kg/m), Selvedge Wire 8 Swg ( 0.1057 kg/m), Binding Wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100 mm X 120 mm) (SS/SP 2401)	cum	20.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
7	Pipe Culvert (900 mm dia): Providing and laying of filter media with granular material/stone crushed aggregates with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wall and return wall to the full height compacted to a firm condition all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 909, 910)	cum	14.0			
8	Pipe Culvert (900 mm dia): Providing and laying of a geotextile filter in weephole as per complete as per Drawing, Specification and instruction of Engineer. (SS/SP 2404)	sqm	2.0			
9	Pipe Culvert (900 mm dia): Providing and laying of Plain Cement Concrete (M15/40) in structure including form work all complete as per Drawing, Technical Specification and instruction of Engineer. (SS/SP 2007 & 1804)	cum	41.0			
10	Pipe Culvert (900 mm dia): Providing and laying of Reinforced Cement Concrete of M25/20 all complete as per Drawing, Technical Specification and instruction of Engineer. (SS/SP 2007)	cum	53.0			
11	Pipe Culvert (900 mm dia): Supplying and laying centering, shuttering of various pattern formworks (F2 finish)with plywood & all kind of vertical and horizontal supports for all kinds of RCC works for foundations, sub- structure and super-structure including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints properly and de-shuttering as approved by the Engineer etc., complete at all levels as per Drawing, Specifications and instructions of the Engineer. (SS/SP 1804 , 1805)	sqm	2.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
12	Pipe Culvert (900 mm dia): Providing and fixing of HYSD reinforcement of various diameter, works including straightening, cutting, bending and tying the bars with binding wire (binding wires shall not be measured separately) including all waste and cut pieces, provision for adequate numbers of spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in intended position all complete as per Drawing, Technical Specification and as per instruction of Engineer. (SS/SP 2014)	mt	80.0			
13	Pipe Culvert (900 mm dia): Tubular Steel Railing on Precast RCC posts 1.2m high above ground level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe, fixed 2 meter c/c, all complete as per Drawing, Technical Specifications and instruction of Engineer (SS/SP 3105)	rm	17.0			
14	Pipe Culvert (900 mm dia): Providing and painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing and Technical Specifications and instruction of Engineer. (SS/SP 1501)	sqm	24.0			

### 18 Construction work

#### 18.1 Cross Drainage Structures

##### 18.1.1 Pipe Culvert (90 cm dia) with earth cushion

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Pipe Culvert (900 mm dia) : Earthwork in excavation in all type of soil for foundation of structures up to the required depth including dewatering, construction of shoring and bracing, removal of stumps and other deleterious matter, backfilling with approved Materials and disposal of excess materials at proper place all complete as per Technical Specifications and instruction of Engineer. (SS/SP 907)	cum	163.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Pipe Culvert (900 mm dia): Providing and laying of Plum Concrete (boulder mixed concrete) in wall structure with necessary formwork including weep holes complete as per Drawing and Technical Specifications and instruction of Engineer. 60% M15 and 40% boulder /stones, using mechanical aid. (SS/SP 2416, 3109, 1804)	cum	59.0			
3	Pipe Culvert (900 mm dia): Providing and laying of hand pack Stone soling with 150mm thick stones and packing with smaller stone on prepared surface all complete as per drawing, specification and instruction of engineer. (SS DOR 2416 & 2608)	cum	6.0			
4	Pipe Culvert (900 mm dia): Providing and laying weep holes in Brick dry/Plain/ Reinforced concrete abutment, return wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face Complete as per Drawing, Technical Specifications and instruction of engineer. (Section 20.7)	rm	26.0			
5	Pipe Culvert (900 mm dia): Providing and laying reinforced cement concrete NP3 hume pipe (900mm diameter) flush jointed pipe for culverts including fixing with cement mortar 1:2 all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 701)	rm	20.0			
6	Pipe Culvert (900 mm dia): Providing and laying gabion structure for retaining earth with diaphragm including rolling, cutting weaving, placing, laying sides and diaphragms with binding wire and filling boulders all complete as per Drawing, Specification and instruction of Engineer. (Mesh Wire- 10 Swg (0.0615 kg/m), Selvedge Wire 8 Swg ( 0.1057 kg/m), Binding Wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100 mm X 120 mm) (SS/SP 2401)	cum	10.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
7	Pipe Culvert (900 mm dia): Providing and laying of filter media with granular material/stone crushed aggregates with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wall and return wall to the full height compacted to a firm condition all complete as per Drawing, Specification and instruction of Engineer. (SS/SP 909, 910)	cum	8.0			
8	Pipe Culvert (900 mm dia): Providing and laying of a geotextile filter in weephole as per complete as per Drawing, Specification and instruction of Engineer. (SS/SP 2404)	sqm	1.0			
9	Pipe Culvert (900 mm dia): Providing and laying of Plain Cement Concrete (M15/40) in structure including form work all complete as per Drawing, Technical Specification and instruction of Engineer. (SS/SP 2007 & 1804)	cum	16.0			
10	Pipe Culvert (900 mm dia): Tubular Steel Railing on Precast RCC posts 1.2m high above ground level: Providing, fencing and erecting 50mm dia painted steel pipe in railing in 3 rows on precast M20 RCC vertical posts 1.8m high (1.2m above GL) with 3 holes 50mm dia for pipe, fixed 2 meter c/c, all complete as per Drawing, Technical Specifications and instruction of Engineer (SS/SP 3105)	rm	7.0			
11	Pipe Culvert (900 mm dia): Providing and painting two coats after filling the surface with enamel paint in all shades on surfaces as per Drawing and Technical Specifications and instruction of Engineer. (SS/SP 1501)	sqm	10.0			
<b>19 Construction work</b>						
19.1 Cross Drainage Structures						
19.1.1 Plantation						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Plantation : Planting containerized tree and shrub seedlings, including pitting, transplanting, composting and placing tree guards, in plain areas. Pit size 30 cm diameter x depth. Compost volume 1/4 of the volume of the pit, mixed with original soil all complete as per Specification & instruction of Engineer. (SS/SP 2812)	no.	184.0			

**Amendment Notice**

for

**Request for Bids for the Procurement of Works dated on 8<sup>th</sup> December 2023 for Upgradation of Mangalapur- Kanchibazar Road (Bebra to Kanchibazar Section)**

Amendment Notice Publication Date: January 3, 2024

This is to notify that we have issued herewith the Amendment on The Request for Bids for the Procurement of Works issued in PPMO dated on 8<sup>th</sup> December 2023 for Upgradation of Mangalapur- Kanchibazar Road (Bebara to Kanchibazar Section), Tiltolama, under Nepal Urban Governance and Infrastructure Project (NUGIP), RFB No: NP-DUDBC-395275-CW-RFB, Loan No. /Credit No.: IDA-6778-NP.

**RFB AMENDMENT MATRIX**

S.N.	Reference	Initial Version (RFB issued on 8 December 2023)	Amended RFB Content
1.	Notice of Request for Bids Works, SN-2, third paragraph.	Minimum average annual construction turnover of NRs. 305,000,000.00, calculated as average of total certified payments received for contracts in progress and/or completed in last 5 years.  A minimum number of 2 road construction / reconstruction / upgradation / rehabilitation / improvement with asphalt concrete pavement works contracts each of minimum value NRs. 165,000,000.00 that have been satisfactorily and substantially completed as a prime contractor, joint venture member, management contractor or Subcontractor between 1st December 2018 and bid submission deadline	Minimum average annual construction turnover of NRs. 305,000,000.00 , calculated as average of total certified payments received for contracts in progress and/or completed in last 5 years.  A minimum number of one road construction with asphalt concrete pavement works contracts of minimum value NRs. 165,000,000.00 that have been satisfactorily and substantially completed as a prime contractor, joint venture member, management contractor or Subcontractor within 10 year from the bid submission deadline
2.	Section III: Evaluation and Qualification Criteria  2.4.2 Specific Construction Experience (b) Construction Experience in key activities; SN (i)	(i) A minimum number of two (2) similar contracts specified below that have been satisfactorily and substantially1 completed as a prime contractor, joint venture member, management contractor or Subcontractor between 1st December 2018 and bid submission deadline:  N = Two (2) road construction / reconstruction / upgradation / rehabilitation / improvement with asphalt concrete pavement works contracts, each of minimum value NRs. 165,000,000.00	The evaluation criteria 2.4.2 Specific Construction Experience (b) Construction Experience in key activities;  SN (i) All content has been deleted/omitted  And SN (ii) and (iii) with all contentchanged into SN (i) and (ii) respectively.

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**नारायण अर्याल**  
प्रमुख प्रशासकीय अधिकृत