

Bid Addendum Report

Development Cooperation Implementation Division

Development Cooperation Implementation Division
Babarmahal, Kathmandu
Kathmandu
Bagmati Province
Nepal

Addendum No: 1

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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	2024-05-03 12:30:00

Chapter: Bill of Quantities

1 Provisional Sum					
Procurement Item Details					
SL. No	Item Description	Unit	Quantity	Unit Rate(in NPR)	Amount(in NPR)
1	Environmental monitoring, enhancement, mitigation works, environment awareness campaign, Training and Implementation of ESMP, as per EIA/ ESIA report, design drawings, technical specification and to the satisfaction of Engineer all complete	PS	1	4487000	4487000
2	Compensatory Tree Plantation and take care min 5 years in the location provided by the GoN authority, as per technical specification and to the satisfaction of Engineer all complete.	PS	1	84782000	84782000
3	Social compliance and safe guards: Relocation of public Structures including livelihood restoration activities, GESI related awareness and skill enhancement as part of IPDP Implementation as per technical specification and to the satisfaction of Engineer all complete	PS	1	26325000	26325000
4	Relocation of existing electrical works(Pole , wire and related accessories), water supply and other public utilities including Supervision and Shutdown charge as per NEA rule, design drawings, technical specification and to the satisfaction of Engineer all complete	PS	1	75725000	75725000
5	Additional testing of material or works as required by the Engineer.	PS	1	1000000	1000000
6	Emergency fund for PBM Works and Services	PS	1	30000000	30000000
7	Providing and erecting street light mounted on a steel circular hollow pole of standard specifications 10m High 1.8m overhanged armed on bothside , fitted with Sodium Vapour Lamp and fixed firmly in concrete foundation including testing & Commissioning of Electrical Works , Supervision and Shutdown charge as per NEA rule as per design,Drawing and Technical Specifications to the satisfaction of Engineer all complete	PS	1	6082000	6082000
8	Construction of Passenger Shelter including supply of required materials as per design drawings, technical specification and to the satisfaction of Engineer all complete	PS	1	8599000	8599000
9	Construction of Toilet Facility including supply of required materials as per design drawings, technical specification and to the satisfaction of Engineer all complete	PS	1	6086000	6086000
10	Providing and Fixing firmly to the ground Traffic Blinker at designated locations all complete as per Drawing and Technical Specifications.	PS	1	633000	633000
11	Provision for DAAB (Employer Portion)	PS	1	110000000	110000000
2 Construction work					
2.1 Road Construction Work					
2.1.1 Road Work General Item					

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Insurances for the loss of or damage to works, plant, material, equipment, property and personnel injury or death, as per technical specification and to the satisfaction of Engineer all complete. [Spec Cl no 119]	LS	1.0			
2	Construction of office building (RCC structure, multi stories) including electrical, plumbing and sanitary works all complete as per design drawings, technical specifications (issued by Departmental of Urban Development and Building Construction and to the satisfaction of Engineer all complete, The building shall remain the property of the Employer. (SS/SP 100)	LS	1.0			
3	Construction of accomodation building (RCC structure, multi stories) including electrical, plumbing and sanitary works all complete as per design drawings, technical specifications (issued by Departmental of Urban Development and Building Construction and to the satisfaction of Engineer all complete. The building shall remain the property of the Employer. (SS/SP 100)	LS	1.0			
4	Contractor's material testing laboratory at site Providing laboratory space, laboratory equipment,furniture, human resources, transportation facilities, maintaining and operating, etc. of the material testing laboratory at site, as per technical specification and to the satisfaction of Engineer all complete.The furniture and equipment of the lab shall remain the property of the Contractor upon completion of the contract.[Spec Cl no 600]	month	36.0			
5	Routine/Regular Maintenance of road during construction period, as per technical specification and to the satisfaction of Engineer all complete (Km 260+100 to Km 289+840) [Spec Cl no 2902, 109]	Km-Mon	1071.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
6	Filling Pot-holes and Patch Repairs with open-Graded Premix surfacing, 20 mm. Providing required material and repair the pot holes including removal of failed material, trimming and finishing the surface applying tack coat on the sides and base of excavation, backfilling with hot bituminous Material and compaction as per Technical Specification and instruction of the Engineer. [Spec Cl no 2903]	sqm	19517.0			
7	Provision and installation of site information notice board, as per design drawings, technical specification and to the satisfaction of Engineer all complete. (Spec Cl no 110]	nos	2.0			
8	Provide photographs of the works as per specification.(Spec Cl no 116]	month	36.0			
9	Prepare and supply of project record (video documentary) of the site before, during and after the site works as per technical specification and to the satisfaction of Engineer. (Spec Cl no 116]	Set	3.0			
10	GIS Data Creation: Preparation and submission of as built drawing showing newly constructed road, drainage structures, existing utilities (electrical, telecommunication, water and sewer lines) in a format suitable for transferring to GIS database at the completion of each section, as per design drawings, technical specification and to the satisfaction of Engineer all complete. [Spec Cl no 124]	LS	1.0			

3 Construction work

3.1 Site Clearance

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	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. (Spec Cl no 200):(i) 300 mm to 600 mm	nos	1192.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	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. (Spec Cl no 200):(ii) 600mm to 900 mm	nos	1216.0			
3	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. (Spec Cl no 200):(iii) 900 mm to 1800 mm	nos	2885.0			
4	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. (Spec Cl no 200):(iv) 1800 mm to 2500 mm	nos	265.0			
5	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. (Spec Cl no 200):(v) Above 2500 mm	nos	58.0			
6	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including scaffolding wherever necessary, sorting the dismantled Material, disposal of unserviceable Material and stacking the serviceable Material with all lifts and lead (Spec Cl no 200):(a) Prestressed /reinforced cement concrete grade above M-20	cum	4566.0			
7	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including scaffolding wherever necessary, sorting the dismantled Material, disposal of unserviceable Material and stacking the serviceable Material with all lifts and lead (Spec Cl no 200):(b) Up to 600 mm dia Hume Pipe	m	12.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Dismantling of Steel works of structure comprising of masonry, cement concrete, wood work, steel work, including scaffolding wherever necessary, sorting the dismantled Material, disposal of unserviceable Material and stacking the serviceable Material with all lifts and lead , Steel Work in all types of sections upto a height of 5 m above plinth level excluding cutting of rivet. including dismembering (Spec Cl no 202)	ton	2.0			
9	Dismantling Railing by manual means and disposal of dismantled Material with all lifts and lead , stacking serviceable Material and unserviceable Material separately. (Spec Cl no 202)	m	490.0			
10	Dismantling of structure comprising of masonry including scaffolding wherever necessary, sorting the dismantled Material, disposal of unserviceable Material and stacking the serviceable Material with all lifts and lead , (Spec Cl 202)	cum	280.0			
11	Clearing and grubbing including uprooting, transporting and disposing of vegetation, grass, bush, sapling and trees of girth up to 300 mm(measured at a height of 1m above the ground level), all complete (Spec Cl no 201)	sqm	640820.0			
12	Dismantling of flexible pavements and disposal of dismantled Material , stacking serviceable and unserviceable Material separately,(Spec Cl no 202):(a) Bituminous course	cum	17435.0			
13	Dismantling of flexible pavements and disposal of dismantled Material , stacking serviceable and unserviceable Material separately,(Spec Cl no 202):(b) Granular course	cum	18039.0			
14	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled Material , stacking serviceable and unserviceable Material separately (Spec Cl no 202)	cum	1419.0			
15	Dismantling Kerb stone by manual means and disposal of dismantled Material with all lifts and lead (Spec Cl no 202)	cum	490.0			

4 Construction work						
4.1 Earthworks						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Roadway and unlined surface drain excavation in all types of soil as per drawing and technical specification,including all lift and lead as per drawing and instruction of the engineer(Spec Cl no 900)	cum	42074.0			
2	Construction of embankment by Filling with approved suitable Material .Providing, laying, spreading and compacting embankment with suitable material as per drawing and Technical Specification(Spec Cl no 909,910,1205)	cum	944164.0			
5 Construction work						
5.1 Pavement Works						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Providing and laying sub-grade and earthen shoulders with approved Material obtained from borrow pits with all lifts & leads as per Drawing and Technical Specifications.(Spec Cl no 1000,1200)	cum	300617.0			
2	Granular Sub-Base Material: 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.(Spec Cl no 1201)	cum	191564.0			
3	Wet Mix Macadam: Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC laying in uniform layers in base course on well prepared surface and compacting to achieve required density as per Drawing and Technical Specifications. (Spec Cl no 1208)	cum	152606.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
4	Prime Coat, with MC 30 / 70 : Providing and applying prime coat with hot bitumen (including cutter) on prepared surface of granular base including cleaning of road surface and spraying as per Technical Specification. (Spec Cl no 1302)	lit	479831.0			
5	Tack coat with Bitumen : Providing and applying tack coat with hot bitumen at specified rate on the prepared surface including cleaning as per Technical Specification. (Spec Cl no 1302)	lit	612171.0			
6	Bituminous Concrete : Providing and laying Asphalt concrete using crushed aggregates of specified grading premixed with bituminous binder and filler as per Drawing and Technical Specifications (SS Clause 1309).	cum	29639.0			
7	Providing and laying Dense Bituminous Macadam using crushed aggregates of specified grading , premixed with bituminous binder and filler as per drawing and Technical Specifications. (Spec Cl no 1308)	cum	52979.0			
8	Dry Lean Cement Concrete Sub- base: Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate with optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days as per drawing and technical Specification(Spec Cl no 1318)	cum	984.0			
9	Cement Concrete Pavement: Construction of plain cement concrete pavement over a prepared sub base spread, compacted and finished in a continuous operation as approved, curing compound, finishing to lines and grades as per drawing and Technical Specification(Spec Cl no 1319)	cum	1968.0			
10	Construction of Median and Island with approved suitable Soil : Providing and laying Median and Island above road level with approved Material including compaction as per Drawing and Specifications. (Spec Cl no 1205)	cum	54927.0			

6 Construction work

6.1 Structures (Retaining Wall Structure Side Drains Cross Drainage Structure including Protection Work)						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Providing and laying of PCC (Grade M 15) as per Drawing and Technical Specifications (Spec Cl no 2000)	cum	6432.0			
2	Earthwork in Excavation of foundation of structure in all type of soil including construction of shoring and bracing, removal of stumps and other deleterious matter and backfilling with approved material as per drawings and technical specifications including necessary dewatering (Spec Cl No 907)	cum	43708.0			
3	Providing and laying of plain/reinforced cement concrete in foundation complete as per drawing and technical specifications (including formwork). RCC M20 (Spec Cl no 2000)	cum	378.0			
4	Random Rubble Masonry; Providing and laying of Stone Masonry Work in Cement Mortar 1:3 as per Drawing and Technical Specifications.(Spec Cl no 2608)	cum	20187.0			
5	Providing and laying, weep holes in brick dry/plain/reinforced concrete abutment, wing wall/return wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope 1V: 20H towards outer face complete as per drawing and technical specifications(Spec cl no 3109)	m	11755.0			
6	Providing and laying of Filter media with granular Material/stone crushed aggregates to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification.(Spec Cl no 3110)	cum	4606.0			
7	Providing and laying of plain/reinforced cement concrete in sub-structure complete as per drawing and Technical specifications (including formwork).(Grade RCC M 20) (Spec Cl no 2000)	cum	3394.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Laying and fixing of Geo-Textile Filter all complete as per Drawing and Technical Specifications.(Spec Cl no 2404)	sqm	69.0			
9	Providing and laying, fitting and placing un-coated HYSD reinforcement complete as per drawing and technical specification(Spec Cl no 2014)	ton	2252.0			
10	Laying and fixing of Steel Drainer(100mm Dia) at Drainage Opening all complete as per Drawing and Technical Specifications.(Spec Cl no 3117)	nos	680.0			
11	Providing and laying of hand pack stone soling with 150 to 200 mm thick stones and packing with smaller stone on prepared surface as per Drawing and Technical Specifications. (Spec Cl no 1402A)	cum	3568.0			
12	Providing and laying of sand to a thickness of not less than 300 mm compacted to a firm condition complete as per drawing and Technical Specification. (Spec Cl no 908A)	cum	3420.0			
13	Providing and laying of Plain/Reinforced Cement Concrete complete as per Drawing and Technical Specifications. RCC grade M35 (Including Formwork) (Spec Cl no 2000)	cum	21731.0			

7 Construction work

7.1 Road Furniture and Traffic Safety Measures

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501): (i) 900 mm Equilateral Triangle	nos	268.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
2	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(ii) 750 mm Circular	nos	59.0			
3	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(iii) Rectangular 500mm x 1000mm	nos	8.0			
4	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(iv) Rectangular 600mm x 1000mm	nos	10.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
5	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(v) Rectangular 400mm x 400mm	nos	8.0			
6	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(vi) Rectangular 500mm x 500mm	nos	4.0			
7	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(vii) Rectangular 450mm x 450mm	nos	25.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
8	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(viii) Rectangular 900mm x 1200mm	nos	12.0			
9	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(ix) Rectangular 2000mm x 1000mm	nos	2.0			
10	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(x) Rectangular 1500mm x 1000mm	nos	14.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
11	Providing and fixing of retro-reflectorized warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (Spec Cl no 1501):(xi) Rectangular 2000mm x 1500mm	nos	36.0			
12	Galvanised Metal Beam Crash Barrier Reflector as per Drawing and Technical Specifications(Spec Cl no 1513)	nos	3388.0			
13	Type - A, "W" : Metal Beam Crash Barrier: Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m center to center, 1.8 m high, 1.1 m below ground/road level metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per Drawing and Technical Specifications.(Spec Cl no 1511)	m	16942.0			
14	Road marking with hot applied thermoplastic compound with reflectrizing glass beads on smooth pavement surface . Providing and laying of hot applied thermoplastic compound at least 2mm thick including reflectorizing glass beads as per DOR Traffic sign manual/ Specifications. The finished surface to be level, uniform and free from streaks and holes.(Spec Cl no 1504)	sqm	41138.0			
15	Providing and fixing reinforcement cement concrete M 15 grade kilometer post including painting and printing as per standard drawing -2070 and technical specification. (Spec Cl no 2014):(a) Ordinary 1 KM Stone	nos	24.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
16	Providing and fixing reinforcement cement concrete M 15 grade kilometer post including painting and printing as per standard drawing -2070 and technical specification. (Spec Cl no 2014):(b) 5 KM Stone	nos	7.0			
17	Providing and fixing of road stud 100 x 100 mm, die-cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lenses reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per Drawing and Technical Specifications., Aluminium Studs 100 x 100 mm fitted with lense reflectors(Spec Cl no 1505)	nos	1074.0			
18	Providing and fixing Median Markers with fluorescent yellow colour retro reflective sheeting Type XI as per IRC:67 (Spec Cl no 1514)	nos	11896.0			
19	Providing and Laying RCC 300mm dia NP3 Flush jointed pipe for culvert including fixing with cement mortar 1:2 as per drawing and technical specifications (Spec Cl no 700)	m	1700.0			
20	Providing and Laying of M20 precast cement concrete Kerb 38cm x 20cm x 25cm (H*B*L) with 12mm thick 1:3 cement sand mortar bedding and joints including foundation excavation, levelling and foundation concrete , all complete as per Drawing and Technical Specifications.(Spec Cl no 1401)	m	59378.0			
21	Providing and painting two coats after filling the surface with synthetic enamel paint in all shades on Kerb stone as per drawing and technical specifications (Spec Cl no 1501)	sqm	22564.0			
22	Providing, fitting and fixing steel railing complete as per drawing and Technical Specification(Spec Cl no 3105)	m	6800.0			
23	Providing and laying of precast / cast in situ 50 mm thick cement concrete slab footpath on 12 mm thick 1: 3 cement sand mortar over the prepared base, all complete as per Drawing and Technical Specifications.(Spec cl no 1400)	sqm	13600.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
24	Providing Sand Filling as per Drawing & Technical Specification(Spec Cl no 908)	cum	408.0			
25	Providing and Laying 100mm HDPE Pipe below Footpath @ 5m C/C distance as per Drawing & Technical Specification(Spec Cl no 3111)	m	1360.0			

8 Construction work

8.1 Bridge-Repair and Rehabilitation

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Removal of existing asphaltic wearing coat including disposal with all lift and lead complete as per Technical Specification and Direction of the Engineer. (Spec cl no 2712)	Sqm	434.0			
2	Providing and Filling Pot-holes and Patch Repairs with Bituminous concrete of 40 mm thick. Providing required material and repair the pot holes including removal of failed material, trimming and finishing the surface applying tack coat on the sides and base of excavation, backfilling with hot bituminous Material and compaction as per Technical Specification and instruction of the Engineer.(Spec Cl no 2903)	Sqm	288.0			
3	Removal of existing cement concrete wearing coat including its disposal without causing any detrimental effect to any part of the bridge structure and removal of dismantled material with all lifts and lead complete as per Technical Specifications (Spec Cl no 2712)	Cum	23.0			
4	Providing and replacement/Maintenance of Expansion Joints complete as per drawings, Technical specifications and direction of the Engineer.(Spec cl no 2900)	m	153.0			
5	Providing and applying polymer concrete (35 mm thick) and curing compounds on damaged concrete surface as per technical specification and approval of the Engineer. (Spec Cl no 2700)	Sqm	1.0			
6	Providing and Applying epoxy mortar over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete as per Technical Specification (Spec Cl no 2707)	Sqm	22.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
7	Providing and Sealing of cracks/porous concrete by application of epoxy resin complete as per Technical Specification (Low viscosity epoxy resin)(Spec cl no 2706)	Sqm	388.0			
8	Providing and replacement of Damaged Concrete Railing as per Drawing, Technical Specifications and direction of the Engineer,. (Spec Cl no 2700)	m	57.0			

9 Construction work

9.1 Performance Based Maintenance

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Performance based maintenance and Regular Maintenance (length workers & Supervisors) works and services including all activities as per design drawings, technical specification and to the satisfaction of Engineer all complete. [SS/SP 2900]: (i) Year#1	km-month	357.0			
2	Performance based maintenance and Regular Maintenance (length workers & Supervisors) works and services including all activities as per design drawings, technical specification and to the satisfaction of Engineer all complete. [SS/SP 2900]: (ii) Year#2	km-month	357.0			
3	Performance based maintenance and Regular Maintenance (length workers & Supervisors) works and services including all activities as per design drawings, technical specification and to the satisfaction of Engineer all complete. [SS/SP 2900]: (iii) Year#3	km-month	357.0			
4	Performance based maintenance and Regular Maintenance (length workers & Supervisors) works and services including all activities as per design drawings, technical specification and to the satisfaction of Engineer all complete. [SS/SP 2900]: (iv) Year#4	km-month	357.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
5	Performance based maintenance and Regular Maintenance (length workers & Supervisors) works and services including all activities as per design drawings, technical specification and to the satisfaction of Engineer all complete. [SS/SP 2900]: (v) Year#5	km-month	357.0			
10 Construction work						
10.1 Dayworks						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Labour : (i) Skilled Labour	M-day	100.0			
2	Labour : (ii) Unskilled Labour	M-day	500.0			
3	Material : (i) Stone	Cum	100.0			
4	Material: (ii) Cement	Mt.	10.0			
5	Material: (iii) Reinforcement (8,10,12,16,20,25mm)	Mt.	10.0			
6	Material: (iv) Aggregate(10-40mm size)	Cum	500.0			
7	Material: (v) Sand	Cum	200.0			
8	Material: (vi) Supply of Heavy zinc coated Mechanically selvedged double twisted wire mesh 100mm x 120mm size with mesh wire 3.0mm , selvedge wire 3.9, and lacing wire 2.4mm	Sqm	400.0			
9	Plant / Equipment :The rates shall include all cost of operating on site as fuel, lubricant, driver and associated labour wages, overhead and profit. only time actually employed open the work shall be paid.: (i)Tipper (4- 6 m3 capacity)	Hr.	100.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
10	Plant / Equipment :The rates shall include all cost of operating on site as fuel, lubricant, driver and associated labour wages, overhead and profit. only time actually employed open the work shall be paid.:(ii)Truck (8-10 T capacity)	Hr.	100.0			
11	Plant / Equipment :The rates shall include all cost of operating on site as fuel, lubricant, driver and associated labour wages, overhead and profit. only time actually employed open the work shall be paid.:(iii) Loader (1-1.5 m3 capacity)	Hr.	50.0			
12	Plant / Equipment :The rates shall include all cost of operating on site as fuel, lubricant, driver and associated labour wages, overhead and profit. only time actually employed open the work shall be paid.:(iv) Excavator (greater than 0.75 Cum capacity)	Hr.	50.0			
13	Plant / Equipment :The rates shall include all cost of operating on site as fuel, lubricant, driver and associated labour wages, overhead and profit. only time actually employed open the work shall be paid.:(v) Motor Grader (greater than 135 HP capacity)	Hr.	50.0			
14	Plant / Equipment :The rates shall include all cost of operating on site as fuel, lubricant, driver and associated labour wages, overhead and profit. only time actually employed open the work shall be paid.:(vi)Vibratory Roller (greater than 10 ton Capacity)	Hr.	50.0			
15	Plant / Equipment :The rates shall include all cost of operating on site as fuel, lubricant, driver and associated labour wages, overhead and profit. only time actually employed open the work shall be paid.:(vii) Water Browser (5000 ltr capacity)	Hr.	50.0			

11 Construction work

11.1 Miscellaneous Works for Nepal Telecom

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	Earthwork in Excavation of Foundation of Structure including construction of shoring and bracing removal of stumps and deleterious matter and Backfilling with approved material deposited with including compaction as per design drawing , technical specification and to the satisfaction of Engineers all Complete (Spec Cl no 2000/704)	Cum	16703.0			
2	Construction of RCC (M20 grade) joint chamber of OFC joint (inner size 1mx 1mx1m @ 1900m c/c) including Excavation and Backfilling , Compaction , Stone Soling , Cover Slab as per design drawings , technical specification and to the satisfaction of Engineers all Complete[Spec Cl No 2000/704]	Nos	43.0			
3	Supplying , Transporting , Placing and Fixing of 100mm dia Medium type GI pipe at Culverts , Bridge Causeway etc as per design drawings , technical specification and to the satisfaction of Engineers all Complete(Spec Cl no 2000/704)	m	1940.0			
4	Transporting from site yard, Laying, Fixing of 40/33 PL- HDPE duct pipe in line and level with necessary Fittings and laying of warning tape as per design drawings , technical specification and to the satisfaction of Engineers all Complete . [NTC shall provide 40/33 PL- HDPE Pipe and Fittings at Site](Spec Cl no 2000/704)	m	59940.0			
5	Supplying, Transporting , Placing and fixing of 6 inch dia HDPE pipe pressure 6 kg/cm2 at road crossing in line and level with necessary Fittings as per design drawings , technical specification and to the satisfaction of Engineers all Complete . (Spec Cl no 2000/704)	m	400.0			
12 Construction work						
12.1 Bridge Construction Work						
12.1.1 FOUNDATION						

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Earth work in excavation of foundation of structures for all types of soil including rock, including construction of shoring and bracing, removal of stumps and other deleterious matter and backfilling with approved Material as per Drawing and Technical Specifications.(Spec Cl no 907)	cum	29355.0			
2	Providing and laying of hand pack stone soling with 150 to 200 mm thick stones and packing with smaller stone on prepared surface as per Drawing and Technical Specifications. (Spec Cl no 1402A)	cum	866.0			
3	Providing and laying of Plain Cement Concrete M 15 in Foundation complete as per Drawing and Technical Specifications. (Including Formwork) (Spec Cl no 2000)	cum	774.0			
4	Providing and laying of Plain/Reinforced Cement Concrete in Foundation complete as per Drawing and Technical Specifications. RCC grade M35. (Including Formwork)(Spec Cl no 2000)	cum	22122.0			
5	Providing and laying , fitting and placing un-coated HYSD reinforcement complete in foundation complete as per drawing and technical specification (Spec Cl no 2014)	ton	2264.0			
6	Providing, Boring and installing bored cast-in-situ RCC Pile excluding Reinforcement and Concrete in all types of soil including Bentonite and other consumable and removal of excavated earth with necessary lifts and lead all complete as per Drawing and Technical Specifications. (Spec Cl no 1612)	m	10372.0			
7	Carryout Pile Load Test including all consumable and accessories as per test procedure mentioned in the Technical Specifications.(Spec Cl no 1614)	Nos	51.0			
13 Construction work						
13.1 Bridge Construction Work						
13.1.1 SUBSTRUCTURE						
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	Providing and laying of Plain/Reinforced Cement Concrete in Abutment and Piers complete as per Drawing and Technical Specifications. RCC grade M35 (Including Formwork) (Spec Cl no 2000)	cum	5959.0			
2	Providing and laying , fitting and placing un-coated HYSD reinforcement complete in sub-structure complete as per drawing and technical specification (Spec Cl no 2014)	ton	1005.0			
3	Supplying and placing of 600mm thick filter material layer at rear of the abutment. (Spec Cl no 909, 910)	cum	1478.0			
4	Supply and placing 75mm Diameter HDP Pipe for Weep Holes @ 1.5m c/c both ways scattered (Spec Cl no 3109)	m	949.0			

14 Construction work

14.1 Bridge Construction Work

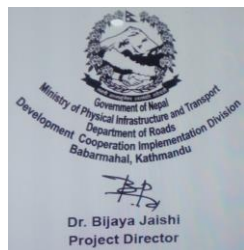
14.1.1 SUPER STRUCTURE

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Providing and laying of Reinforced / Pre-stressed cement concrete in super-structure as per drawing and Technical Specification. RCC/PSC grade M50(Including Formwork and Staging) (Spec Cl no 2000)	cum	3017.0			
2	Providing and laying of Reinforced / Pre-stressed cement concrete in super-structure as per drawing and Technical Specification. RCC/PSC grade M45(Including Formwork and Staging) (Spec Cl no 2000)	cum	1903.0			
3	Providing and laying of Reinforced / Pre-stressed cement concrete in super-structure as per drawing and Technical Specification. RCC/PSC grade M40(Including Formwork and Staging) (Spec Cl no 2000,2100)	cum	503.0			
4	Providing and laying of Reinforced / Pre-stressed cement concrete in super-structure as per drawing and Technical Specification. RCC/PSC grade M30(Including Formwork and Staging) (Spec Cl no 2000,2100)	cum	198.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
5	Providing and laying of Reinforced cement concrete in super-structure as per drawing and Technical Specification. RCC grade M35(Including Formwork and Staging) (Spec Cl no 2000)	cum	3766.0			
6	Providing and laying of Reinforced cement concrete in super-structure as per drawing and Technical Specification. RCC grade M25(Including Formwork and Staging)(Spec Cl no 2000)	cum	766.0			
7	Providing and laying , fitting and placing un-coated HYSD reinforcement complete in super-structure complete as per drawing and technical specification (Spec Cl no 2014)	ton	2046.0			
8	High tensile steel wires/strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical Specifications (Spec Cl no 2100)	ton	185.0			
9	Providing and laying of an elastomeric slab seal expansion joint complete as per Drawings and Technical specifications (Spec Cl no 1901)	m	721.0			
10	Supplying, fitting and fixing in position true to line and level POT PTFEE bearing including all accessories as per Drawing and Technical Specifications. (Spec Cl no 1902)	nos	144.0			
11	Supplying, fitting and fixing in position true to line and level elastomeric bearing including all accessories as per Drawing and Technical Specifications. (Spec Cl no 1902)	nos	200.0			
12	Providing and fixing Drainage Spouts complete as per Drawing and Technical specifications.(Spec Cl no 3107)	nos	271.0			
13	Providing and Painting two coats after filling the surface with synthetic enamel paint in all shades on concrete / plaster surfaces as per Drawing and Technical Specifications. (Spec Cl no 1506)	sqm	5937.0			
14	Bituminous Concrete: Providing and laying Asphalt concrete using crushed aggregates of specified grading premixed with bituminous binder and filler as per Drawing and Technical Specifications (SS Clause 1309).	cum	898.0			
15 Construction work						

15.1 Bridge Construction Work						
15.1.1 APPROACH ROAD AND PROTECTION WORKS						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
1	Earth work in excavation of foundation of structures for all types of soil including rock, including construction of shoring and bracing, removal of stumps and other deleterious matter and backfilling with approved Material as per Drawing and Technical Specifications.(Spec Cl no 907)	cum	6684.0			
2	Providing and laying of Plain Cement Concrete M 15 in Foundation complete as per Drawing and Technical Specifications. (Including Formwork) (Spec Cl no 2000)	cum	263.0			
3	Backfilling behind Structure with Locally available material including compaction by Tampering rod (Without watering)(Spec Cl no 909,910)	cum	11600.0			
4	Providing, Laying and Assembling Gabion boxes mattresses, placing in position including stretching, forming compartments; tying with bracing wires and tie wires; tying down the lid complete; and providing and filling stone / boulder in gabion boxes / mattresses etc. including dressing, bedding, bonding and all transportation as per specification. (Machine Made Gabions including stone / boulder filling) (Spec cl no 2402)	cum	5510.0			
5	Providing and laying of a geotextile filter between pitching and embankment slopes as per Drawing and Technical Specifications. (Spec cl no 2404)	sqm	9303.0			
6	Providing and laying Stone Masonry work in cement mortar 1:4 in structure complete as per Drawing and Technical Specifications.(Spec cl no 2602, 2603, 2608)	cum	5160.0			
7	Supplying and placing of 300mm thick filter material layer at rear of the abutment. (Spec cl no 3110)	cum	1225.0			
8	Supply and placing 75mm Diameter HDP Pipe for Weep Holes @ 1.5m c/c both ways scattered(Spec Cl no 3109)	m	2311.0			

Procument Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate(NPR)	Bidder's Rate (in words)	Total Amount(NPR)
9	Turfing: Grass sodding works including sod cutting , transporting , placing in position and water sprinkling (Spec cl no 2812)	sqm	780.0			
10	Providing and fixing two HDPE pipe of dia. 200 mm with MS-Rod, nuts, and bolts at the interval of 3m as per drawing and specifications for Utility (Spec Cl no 3111)	m	2447.0			



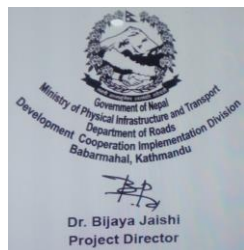
Ministry of Physical Infrastructure and Transport
Department of Roads
Development Cooperation Implementation Division
Strategic Road Connectivity & Trade Improvement Project
AMENDMENT ON REQUEST FOR BID DOCUMENTS
Contract No. SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)
AMENDMENT No.-1

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]

Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

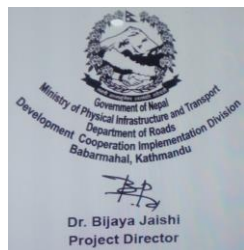
As per the provision of Instruction to Bidders ITB 7 and Bid Data Sheet (BDS), Clarification and Amendment No.-1 has been issued as per following:

S.N.	Amendment On	Amended As																														
1.	Part 1 Bidding Procedures Section IV: Bidding Forms- Bill of Quantities For Lot-2 <table border="1"> <tr> <td>2.2.1.5</td><td>Providing and laying, fitting and placing un-coated HYSD reinforcement complete in foundation complete as per drawing and technical specification (Spec Cl no 2014)</td><td>cum</td></tr> <tr> <td>2.2.1.6</td><td>Providing, Boring and installing bored cast-in-situ RCC Pile excluding Reinforcement and Concrete in all types of soil including Bentonite and other consumable and removal of excavated earth with necessary lifts and lead all complete as per Drawing and Technical Specifications. (Spec Cl no 1612)</td><td>cum</td></tr> </table> For Lot-1 & 3 <table border="1"> <tr> <td>2.2.2.5</td><td>Providing, Laying and Erection of Reinforced soil structure using RCC Precast Panel made from M35 Grade Concrete as Facia of minimum 160 mm thickness and 50 mm/70 mm wide Geosynthetic strap soil reinforcement made of polyester yarns and encapsulated LLDPE Sheathing all complete as per Drawing and Technical Specifications. (Spec cl no 301)</td><td></td></tr> </table> For Lot-1, 2 & 3 <table border="1"> <tr> <td>2.2.4.4</td><td>Providing, Laying and Assembling Gabion boxes mattresses, placing in position including stretching, forming compartments; tying with bracing wires and tie wires; tying down the lid complete; and providing and filling stone / boulder in gabion boxes/ mattresses etc. including dressing, bedding, bonding and all transportation as per specification. (Machine Made Gabions including stone / boulder filling) (Spec cl no 2401)</td><td></td></tr> </table> For Lot-1 <table border="1"> <tr> <td>2.2.4.11</td><td>Turfing: Grass sodding works including sod cutting, transporting, placing in position and water sprinkling (Spec cl no 2807)</td><td></td></tr> </table>	2.2.1.5	Providing and laying, fitting and placing un-coated HYSD reinforcement complete in foundation complete as per drawing and technical specification (Spec Cl no 2014)	cum	2.2.1.6	Providing, Boring and installing bored cast-in-situ RCC Pile excluding Reinforcement and Concrete in all types of soil including Bentonite and other consumable and removal of excavated earth with necessary lifts and lead all complete as per Drawing and Technical Specifications. (Spec Cl no 1612)	cum	2.2.2.5	Providing, Laying and Erection of Reinforced soil structure using RCC Precast Panel made from M35 Grade Concrete as Facia of minimum 160 mm thickness and 50 mm/70 mm wide Geosynthetic strap soil reinforcement made of polyester yarns and encapsulated LLDPE Sheathing all complete as per Drawing and Technical Specifications. (Spec cl no 301)		2.2.4.4	Providing, Laying and Assembling Gabion boxes mattresses, placing in position including stretching, forming compartments; tying with bracing wires and tie wires; tying down the lid complete; and providing and filling stone / boulder in gabion boxes/ mattresses etc. including dressing, bedding, bonding and all transportation as per specification. 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(Spec Cl no 1612)</td><td>m</td></tr> </table> For Lot-1 & 3 <table border="1"> <tr> <td>2.2.2.5</td><td>Providing and fixing of reinforced soil wall structure with minimum M35 Grade precast reinforced concrete panel facia material, reinforced with metallic or synthetic material or combination of both, including all necessary accessories and arrangements all complete as a per Drawing and Technical Specifications. (Spec. cl. no. 301)</td><td></td></tr> </table> For Lot-1, 2 & 3 <table border="1"> <tr> <td>2.2.4.4</td><td>Providing, Laying and Assembling Gabion boxes mattresses, placing in position including stretching, forming compartments; tying with bracing wires and tie wires; tying down the lid complete; and providing and filling stone / boulder in gabion boxes/ mattresses etc. including dressing, bedding, bonding and all transportation as per specification. (Machine Made Gabions including stone / boulder filling) (Spec cl no 2402)</td><td></td></tr> </table> For Lot-1 <table border="1"> <tr> <td>2.2.4.11</td><td>Turfing: Grass sodding works including sod cutting, transporting, placing in position and water sprinkling (Spec cl no 2812)</td><td></td></tr> </table>	2.2.1.5	Providing and laying, fitting and placing un-coated HYSD reinforcement complete in foundation complete as per drawing and technical specification (Spec Cl no 2014)	ton	2.2.1.6	Providing, Boring and installing bored cast-in-situ RCC Pile excluding Reinforcement and Concrete in all types of soil including Bentonite and other consumable and removal of excavated earth with necessary lifts and lead all complete as per Drawing and Technical Specifications. (Spec Cl no 1612)	m	2.2.2.5	Providing and fixing of reinforced soil wall structure with minimum M35 Grade precast reinforced concrete panel facia material, reinforced with metallic or synthetic material or combination of both, including all necessary accessories and arrangements all complete as a per Drawing and Technical Specifications. (Spec. cl. no. 301)		2.2.4.4	Providing, Laying and Assembling Gabion boxes mattresses, placing in position including stretching, forming compartments; tying with bracing wires and tie wires; tying down the lid complete; and providing and filling stone / boulder in gabion boxes/ mattresses etc. including dressing, bedding, bonding and all transportation as per specification. (Machine Made Gabions including stone / boulder filling) (Spec cl no 2402)		2.2.4.11	Turfing: Grass sodding works including sod cutting, transporting, placing in position and water sprinkling (Spec cl no 2812)	
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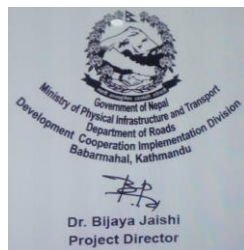
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S.N.	Amendment On	Amended As				
	For Lot-2 & 3 <table><tr><td>2.2.4.9</td><td>Turfing: Grass sodding works including sod cutting, transporting, placing in position and water sprinkling (Spec cl no 2807)</td></tr></table>	2.2.4.9	Turfing: Grass sodding works including sod cutting, transporting, placing in position and water sprinkling (Spec cl no 2807)	For Lot-2 & 3 <table><tr><td>2.2.4.9</td><td>Turfing: Grass sodding works including sod cutting, transporting, placing in position and water sprinkling (Spec cl no 2812)</td></tr></table>	2.2.4.9	Turfing: Grass sodding works including sod cutting, transporting, placing in position and water sprinkling (Spec cl no 2812)
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2.2.4.9	Turfing: Grass sodding works including sod cutting, transporting, placing in position and water sprinkling (Spec cl no 2812)					
2.	Part 2 Employer’s Requirement; Section VII B: Special Provisions to the Standard Specification Section 1000- Subgrades 1007 Measurement Delete the Contents in the Section 1007 and replace with the followings: 1) The scarification of the existing blacktop surface shall be measured in square meter by multiplying average of widths taken at intervals of 10 meter along the centre line of the road multiplying by the respective lengths. 2) Loosening, leveling and compacting original ground support embankment shall be measured in square meter by multiplying average of widths taken at intervals of 10 meter multiplying by the respective lengths. 3) Subgrade preparation in existing pavement in cutting or filling shall be made in square meter by multiplying average of widths taken at intervals of 10 meter multiplying by the respective lengths. 4) Whatsoever written above, no separate measurement for subgrade preparation shall be made if the formation level is obtained after roadway embankment provided that the compacting original ground support is separately measured.	Part 2 Employer’s Requirement; Section VII B: Special Provisions to the Standard Specification Section 1000- Subgrades 1007 Measurement Measurement for the subgrade shall be in accordance with the Section 1007 of the Standard Specifications for Road and Bridge Works 2073 (Amendment 2078).				
3	Part 2 Employer’s Requirement; Section VII B: Special Provisions to the Standard Specification Section 1600- Piling for Structures Add the following sub section as 1612 (5) (a) viii 1612 (5) (a) viii: While carry out the pile boring to placing of concrete, necessary testing, construction of pile cap and sub structure the Contractor shall make necessary arrangement to protect the stability and protection of existing structures. The Contractor shall start the work after providing such arrangement to the satisfaction of the Engineer. Insert the following above last paragraph of sub section as 1612 (5) (b) The Contractor shall propose the requirement of any protection arrangement as mentioned in sub section 1612 (5) (a) viii to the Engineer for his approval. Unless otherwise specifically instructed by the Engineer about type and design of the protection work, the Contractor shall arrange sheet pile with required retaining capacity so as to maintain the stability and safety of existing structure.	Part 2 Employer’s Requirement; Section VII B: Special Provisions to the Standard Specification Section 1600- Piling for Structures <i>Add the following sub section as 1612 (5) (a) viii</i> 1612 (5) (a) viii: While carry out the pile boring to placing of concrete, necessary testing, construction of pile cap and sub structure the Contractor shall make necessary arrangement to protect the stability and protection of existing structures. The Contractor shall start the work after providing such arrangement to the satisfaction of the Engineer. <i>Insert the following above last paragraph of sub section as 1612 (5) (b)</i> The Contractor shall propose the requirement of any protection arrangement as mentioned in sub section 1612 (5) (a) viii to the Engineer for his approval. The Contractor shall arrange appropriate protection work to maintain the stability and safety of existing structure during execution of work.				



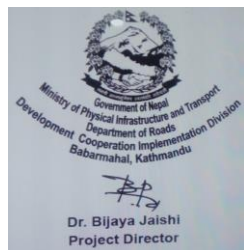
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AMENDMENT No.-1

S.N.	Amendment On	Amended As
	<i>Replace last sentence of 1612 (6) (a) by:</i> Drilling/Boring works for pile is allowed only with rotary or oscillator type drilling equipment. Percussion hammer drilling/DTH Hammer drilling/ Vibratory type of drilling like water or air jetting for boring of piles shall not be allowed. Use of other methods of borehole stability is subject to approval by the engineer. <i>Add the following after first sentence of 1612 (6) (b):</i> Boring /Drilling of the piles is preferred in a staggered pattern. <i>Replace clause 1612 (7) by the following:</i> Stability of borehole shall be ensured by use of temporary casing of approved quality. Use of other methods of borehole stability is subject to approval by the engineer. As well as the Contractor shall ensure the stability of the existing structure during the construction of the new bridge. <i>Replace the last paragraph under 1614(1) with the following:</i> The Contractor shall carry out the loading test on test pile as specified in sub section 1614(2) and 1614 (3). Before constructing the pile works the Contractor shall construct a test pile to the location as specified by the Engineer and perform the above-mentioned loading test. If the test results are found to the satisfaction of the Engineer the pile shall be a part of permanent structure. <i>Add following Sub Clauses 1614 (5) after sub clause 1614(4) "Pile Integrity Test" as below.</i> (5) PDA Test –Foundation Piles The Contractor shall carry out the following High Strain Dynamic Test (popularly known as Pile Dynamic Analyzer or PDA) on; - Foundation piles on which load test will be carried out, - One of working piles selected by the Engineer in each sub structure with pile foundation. i. Specification - The purpose of high strain dynamic testing shall be to obtain pile capacities for bridge foundation piles with a higher confidence level than obtainable with a static load test. This shall be achieved by correlating dynamic tests with static load tests on pilot piles. - The equipment for dynamic testing shall be 'Pile Dynamic Analyzer' (PDA) or similar approved equipment conforming to the requirements of as finalized by the Engineer. - Ram weight, height of fall, cushioning (wood + steel plate) to prevent damage to pile head shall all be in	<i>Replace last sentence of 1612 (6) (a) by:</i> Drilling/Boring works for pile is allowed only with rotary or oscillator type drilling equipment. Percussion hammer drilling/DTH Hammer drilling/ Vibratory type of drilling like water or air jetting for boring of piles shall not be allowed. Use of other methods of borehole stability is subject to approval by the engineer. <i>Add the following after first sentence of 1612 (6) (b):</i> Boring /Drilling of the piles is preferred in a staggered pattern. <i>Replace clause 1612 (7) by the following:</i> Stability of borehole shall be ensured by use of temporary casing of approved quality. Use of other methods of borehole stability is subject to approval by the engineer. As well as the Contractor shall ensure the stability of the existing structure during the construction of the new bridge. <i>Replace the last paragraph under 1614(1) with the following:</i> The Contractor shall carry out the loading test on test pile as specified in sub section 1614(2) and 1614 (3). Before constructing the pile works the Contractor shall construct a test pile to the location as specified by the Engineer and perform the above-mentioned loading test. If the test results are found to the satisfaction of the Engineer the pile shall be a part of permanent structure. <i>Add following Sub Clauses 1614 (5) after sub clause 1614(4) "Pile Integrity Test" as below.</i> (5) PDA Test –Foundation Piles The Contractor shall carry out the following High Strain Dynamic Test (popularly known as Pile Dynamic Analyzer or PDA) on; - One of the working piles selected by the Engineer in any one sub structure with pile foundation for each bridge. i. Specification - The purpose of high strain dynamic testing shall be to obtain pile capacities for bridge foundation piles with a higher confidence level than obtainable with a static load test. This shall be achieved by correlating dynamic tests with static load tests on test piles (working piles). - The equipment for dynamic testing shall be 'Pile Dynamic Analyzer' (PDA) or similar approved equipment conforming to the requirements of as finalized by the Engineer. - Ram weight, height of fall, cushioning (wood + steel



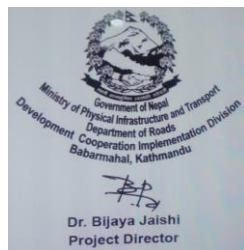
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Development Cooperation Implementation Division
Strategic Road Connectivity & Trade Improvement Project
AMENDMENT ON REQUEST FOR BID DOCUMENTS
Contract No. SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)
AMENDMENT No.-1

S.N.	Amendment On	Amended As
	accordance with standard documented international practice. d) This work shall be carried out by a specialist sub-contractor who shall employ a professionally qualified engineer with a minimum of 5 years of experience in pile dynamic testing using PDA or similar equipment. He shall be in charge of testing and interpretation of results. He shall present himself at least by video contact for interview prior to being engaged. i. Number of Test Piles Dynamic pile testing shall be carried out on one working pile for each substructure with pile foundation as selected by the Engineer. However, the Engineer may reconsider the total number of piles to be tested depending on the quality of results. iii. Test Report On completion of all field work, the specialist engineer shall prepare a final report covering all aspect of pile load-settlement behavior including ultimate tip resistance and ultimate shaft resistance. This final report shall incorporate results of the PDA monitoring, and results of all CAPWAP-Case Pile Wave Analysis Program computer analyses. The results of CAPWAP analysts shall be compared to the PDA results and correlations shall be drawn between the CAPWAP results and the PDA field monitoring results. <i>Add following text at the end of the first paragraph of clause 1616 (2) "Loading Test"</i> "Loading test shall be carried out on working pile of one in each bridge" <i>Rewrite the second paragraph under Section 1617 "Measurement" as below:</i> For cast-in-situ driven and bored concrete piles of specified cross-section, the measurement, for boring and providing & installation of 6mm thick permanent steel casing from bottom of the pile cap upto 0.5m below the maximum scour level and as specified in 1614 (1), shall be the length in metres of the accepted pile that remains in the finished structure complete in place. Reinforcement in cast-in-situ driven and bored concrete piles shall be measured for payment as per Section 2000 <i>Rewrite the third paragraph under Section 1617 "Measurement" as below:</i> Boring, installing 6mm thick steel casing, reinforcement, concreting for the test pile shall be measured under relevant items in the BOQ separately. But the loading tests on test pile (working pile) as mentioned under 1614 (2) shall be measured in number. <i>Please delete second last paragraph under Section 1617</i>	plate) to prevent damage to pile head shall all be in accordance with standard documented international practice. d) This work shall be carried out by a specialist sub-contractor who shall employ a professionally qualified engineer with a minimum of 5 years of experience in pile dynamic testing using PDA or similar equipment. He shall be in charge of testing and interpretation of results. He shall present himself at least by video contact for interview prior to being engaged. ii. Number of Test Piles Dynamic pile testing shall be carried out on one working pile for each bridge with pile foundation as selected by the Engineer. However, the Engineer may reconsider the total number of piles to be tested depending on the quality of results and site condition. iii. Test Report On completion of all field work, the specialist engineer shall prepare a final report covering all aspect of pile load-settlement behavior including ultimate tip resistance and ultimate shaft resistance. This final report shall incorporate results of the PDA monitoring, and results of all CAPWAP-Case Pile Wave Analysis Program computer analyses. The results of CAPWAP analysts shall be compared to the PDA results and correlations shall be drawn between the CAPWAP results and the PDA field monitoring results. <i>Delete second last paragraph under Section 1617 "Measurement".</i> The Pile integrity test shall not be measured separately. It is deemed to be included in the relevant item in the BOQ. High Strain Dynamic Test (popularly known as Pile Dynamic Analyzer) shall be measured in number. <i>Delete the contents under section 1618 "Payment" and replace with the following:</i> The payment for cast-in-situ bored concrete piles of specified cross-section, for boring and those specified in Clause 112, shall be made at the contract unit rate Reinforcement in cast-in-situ bored piles shall be paid at the contract unit rate as specified in Section 2000. Concrete and reinforcement in pile cap shall be paid separately at the contract unit rate as specified in Section 2000. Pile shoes when called for on the Drawing or by the Engineer shall not be paid for separately, but full compensation for all the work involved in supplying and fitting pile shoes shall be considered as included in the unit rate for pre cast concrete piles and no additional compensation shall be allowed.



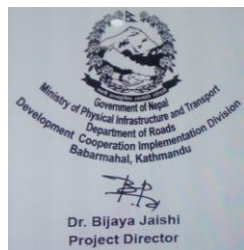
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S.N.	Amendment On	Amended As
	<i>“Measurement”.</i> The Pile integrity test shall not be measured separately. It is deemed to be included in the relevant item in the BOQ. High Strain Dynamic Test (popularly known as Pile Dynamic Analyzer) shall be measured in number. Please add the following at the end of the Section 1617 The measurement of the protection work (sheet pile) done for the existing structures as per 1612(5a, viii) and 1612 (5b) shall be made in square meter (depth x length). Please delete the contents under section 1618 “Payment” and replace with the following: The payment for cast-in-situ driven and bored concrete piles of specified cross-section, for boring and providing & installation of 6 mm thick permanent steel casing as specified in 1614 (1) and those specified in Clause 112, shall be made at the contract unit rate Reinforcement in cast-in-situ driven and bored piles shall be paid at the contract unit rate as specified in Section 2000. Concrete and reinforcement in pile cap shall be paid separately at the contract unit rate as specified in Section 2000. Pile shoes when called for on the Drawing or by the Engineer shall not be paid for separately, but full compensation for all the work involved in supplying and fitting pile shoes shall be considered as included in the unit rate for pre cast concrete piles and no additional compensation shall be allowed. Splicing of piles, when allowed, shall not be paid for separately but full compensation for all the work involved shall be considered as included in the unit rate from pre cast concrete piles. Additional quantities of concrete, reinforcement and form work, caused by incorrect location of piles or additional piles necessary to replace defective piles shall be at the Contractor’s expense. The Payment of the protection work (sheet pile) done for the existing structures as per 1612 (5a, viii) and 1612 (5b) shall be made as per the respective BOQ item rate. No separate payment shall be made for the Pile Integrity test. High Strain Dynamic Test shall be paid at the contract unit as provisioned in Bill of Quantities which shall be full compensation for Pile Instrumentation, Accelerometer, Strain transducer, Pile Driver Analyzer, Impact Pile Driving Hammer, labour, transportation, professionals, recording and reporting including all incidentals necessary to complete the test. Loading tests on Test piles (working pile) shall be paid at contract unit rate which shall be full and final compensation for the cost of all operations and incidental costs associated with	Splicing of piles, when allowed, shall not be paid for separately but full compensation for all the work involved shall be considered as included in the unit rate from pre cast concrete piles. Additional quantities of concrete, reinforcement and form work, caused by incorrect location of piles or additional piles necessary to replace defective piles shall be at the Contractor’s expense. No separate payment shall be made for the Pile Integrity test. High Strain Dynamic Test shall be paid at the contract unit as provisioned in Bill of Quantities which shall be full compensation for Pile Instrumentation, Accelerometer, Strain transducer, Pile Driver Analyzer, Impact Pile Driving Hammer, labour, transportation, professionals, recording and reporting including all incidentals necessary to complete the test. Loading tests on Test piles (working pile) shall be paid at contract unit rate which shall be full and final compensation for the cost of all operations and incidental costs associated with testing operation thereof in addition to those specified in Clause 112. Whatsoever the written above, the rate shall also include the cost of undertaking ‘confirmatory sub-soil investigation’ as per Clause 1619, boring equipment, standard penetration testing, split spoon sampling, boring, excavation, concreting, inspection and control, cutting off, welding, coupling and all related tools, rigs, cranes, jets, frames, leads, labour, barge mounted platform/island of adequate sizes and other incidental equipment and work necessary to complete the work.



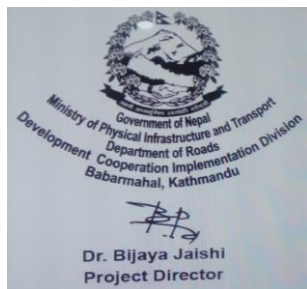
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AMENDMENT No.-1

S.N.	Amendment On	Amended As
	testing operation thereof in addition to those specified in Clause 112. Whatsoever the written above, the rate shall also include the cost of undertaking 'confirmatory sub-soil investigation' as per Clause 1619, boring equipment, standard penetration testing, split spoon sampling, boring, excavation, concreting, inspection and control, cutting off, welding, coupling and all related tools, rigs, cranes, jets, frames, leads, labour, barge mounted platform/island of adequate sizes and other incidental equipment and work necessary to complete the work.	
4	Part 2 Employer's Requirement; Section VII B: Special Provisions to the Standard Specification Section 300- Soil Improvement 301 Reinforced Soil Drawings The Contractor shall prepare all necessary drawings required for the construction of reinforced earth structure and submit to the Engineer for their approval. Design and drawing approval from Employer The Employers shall approve design and drawing after checking and recommendation from the Employer's Representation/Consultants. Specification of Works The Contractor shall adhere to the Standard Specifications for Road and Bridge Works, 2073, Amendment 2075, published by Department of Roads, for material, workmanship and procedure and Special Provision for the contract. The following specification for Mechanically Stabilized Earth with Concrete facing shall be followed: Reinforced soil Structure using RCC Precast Panel Made from M35 Grade Concrete (Using 43/53 Grade ordinary Portland Cement) as Fascia of minimum 160mm thickness and 50mm/70mm wide Geo synthetic strap soil reinforcement made of polyester yarns and encapsulated in LLDPE Sheathing with top three layers of soil reinforcement having high coefficient of apparent Friction (using trapezoidal grooves on both sides of the geo synthetic strap) and the minimum coefficient of apparent friction at the top most layer shall be 1.5, using active connectors between fascia and soil reinforcement as per recommendation of BS-8006 for High seismic zone, Non-woven geotextile made of polypropylene (Minimum Mass 140grams/sqm) EPDM Bearing Pads complete up to 15m wall height. For Backfill/Stabilized Earth in the MSE wall, the material shall meet the following requirements: Angle of internal friction (ϕ) of reinforced as well as retained fill soil > 32 deg Bull Density (γ) of reinforced as well as retained fill soil < 20 KN/m³ Cohesion(C) = 0	Part 2 Employer's Requirement; Section VII B: Special Provisions to the Standard Specification Section 300- Soil Improvement 301 Reinforced Soil <i>Delete the paragraphs with headings "Drawings", "Design and drawing approval from Employer", "Specification of Works".</i>



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S.N.	Amendment On	Amended As																																										
	Coefficient of Uniformity (Cu) ≥ 2.0 $5.0 \leq PH \leq 9.0$ Grain Size < 75 mm should not be more than 15% Permeability $\geq 2 \times 10^{-5}$ m/s (Only for laterite and soils of similar origin)																																											
5	Part 2 Employer's Requirement; Section VII G- Personnel Requirements For Lot-1, 2 & 3 Phase 1 <table> <tr> <th>S.N.</th><th>Position</th><th>Nos.</th></tr> <tr> <td>1</td><td>Contractor's Representative/ Contract Manager</td><td>1</td></tr> <tr> <td>2</td><td>Highway Engineer/ Civil Engineer</td><td>1</td></tr> <tr> <td>3</td><td>Structural/ Bridge Engineer</td><td>1</td></tr> <tr> <td>4</td><td>Environment Specialist</td><td>1</td></tr> <tr> <td>5</td><td>Health and Safety</td><td>1</td></tr> <tr> <td>6</td><td>Social Safeguard Specialist</td><td>1</td></tr> </table>	S.N.	Position	Nos.	1	Contractor's Representative/ Contract Manager	1	2	Highway Engineer/ Civil Engineer	1	3	Structural/ Bridge Engineer	1	4	Environment Specialist	1	5	Health and Safety	1	6	Social Safeguard Specialist	1	Part 2 Employer's Requirement; Section VII G- Personnel Requirements For Lot-1, 2 & 3 Phase 1 <table> <tr> <th>S.N.</th><th>Position</th><th>Nos.</th></tr> <tr> <td>1</td><td>Contractor's Representative/ Contract Manager</td><td>1</td></tr> <tr> <td>2</td><td>Highway Engineer/ Civil Engineer</td><td>2</td></tr> <tr> <td>3</td><td>Structural/ Bridge Engineer</td><td>2</td></tr> <tr> <td>4</td><td>Environment Specialist</td><td>1</td></tr> <tr> <td>5</td><td>Health and Safety</td><td>1</td></tr> <tr> <td>6</td><td>Social Safeguard Specialist</td><td>1</td></tr> </table>	S.N.	Position	Nos.	1	Contractor's Representative/ Contract Manager	1	2	Highway Engineer/ Civil Engineer	2	3	Structural/ Bridge Engineer	2	4	Environment Specialist	1	5	Health and Safety	1	6	Social Safeguard Specialist	1
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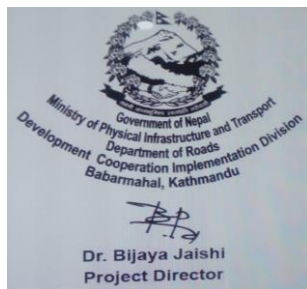


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CLARIFICATION ON REQUEST FOR BID DOCUMENTS
Contract No. SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)
CLARIFICATION NO. 1

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]
Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

As per the provision of Instruction to Bidders ITB 7 and Bid Data Sheet (BDS), Clarification No. 1 has been issued in the table presented in tabular format hereunder:

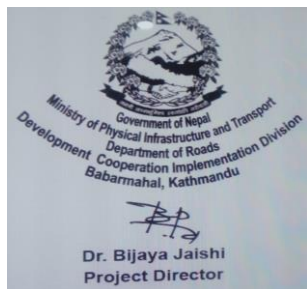
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
1.	Notice of Request for Bids paragraph 2		In Notice of Request for Bids paragraph 2 stipulates The bidders are allowed to obtained bidding documents and bid for any one lot or combinations of lots as they prefer, if the bidder chooses to bid two lots combination or three lots combination, how many tender documents shall the bidder submit? eg. the bidder decides to bid three lots combination, does the bidder need to submit one set of tender document for Lot1, Lot2 and Lot3 or three sets of tender documents for Lot1, Lot2 and Lot3 individually?	The bidder shall submit the bids separately for each lot.
2.	Section IV-Bidding Forms	Bill of Quantities paged 72	Bid Document section IV-Bidding Forms Bill of Quantities paged 72, it describes here Bill of Quantities usually contains Part 1 Provision Sums, Part 2 General, Part 3 Road Works and Part 4 Bridge Construction Works, but the BOQ attached at the end of bid document doesn't have Part 2 General, please confirm the attached BOQ is complete or not? If not, please provide the complete version BOQ.	The attached BOQ is complete.
3.	Part II-Employer's requirements		In Part II-Employer's requirements, Table of Content, page 7-ii, section100-General 103a describes Office, Accommodation, Vehicles, Survey Equipment and Site Laboratory, but in page 7-3 there is only Provision of Site Laboratory, please give the detailed requirements for Office (office for Engineers), Accommodation, Vehicles, Survey Equipment.	It is clarified that there is provision of Office and Accommodation in Lot 2 only. Please refer Special Provisions to the Standard Specification Sub Section 103a for detailed requirements of Office and Accommodation buildings. Also, refer Annex 5 for Survey Equipment required at site for all Lots. And, there is no provision of vehicles for all Lots.
4.	Section IX-Particular	Sub-clause 6.7	Section IX-Particular Conditions of Contract sub-clause 6.7 stipulates The Contractor shall barricade construction sites to prevent uncontrolled and unauthorized access by	The client believes that an experienced contractor is well aware of necessary barricading of construction sites, and



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Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]
Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

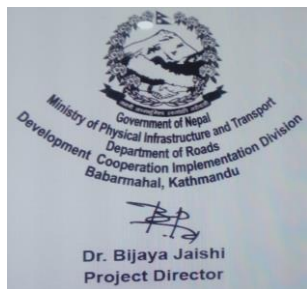
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
	Conditions of Contract		humans, livestock, wildlife and other entities, for road construction the site is a open site, the construction site can't be barricaded, please give detailed requirements for the barricade.	other issues related to Health and Safety of Personnel as well.
5.	Section IX-Particular Conditions of Contract	Sub-clause 14.3(ii)	Section IX-Particular Conditions of Contract sub-clause 14.3(ii) Limit of Retention Money (as a percentage of Accepted Contract Amount) stipulates Phase 1: Upgrading Works Five percent (5%) of the Accepted Contract Amount, Phase 2: Performance Based Maintenance Works, Not Applicable. Only phase 1 applies Retention Money, the Limit of Retention Money for phase 1 shall be the 5% of contract value of phase 1 rather than the total Accepted Contract Amount. Please confirm the Limit of Retention Money for phase 1.	Bid Document's provision in this regard remains unchanged.
6.			For international bidder outside of Nepal, there are a lot of activities to perform in order to participate the bidding for this project, the bidding period is too short, and questions related to Bid Document need to be clarified, so we request to postpone 20 days for the deadline of bid submission.	Bid submission deadline remains unchanged.
7.			Please confirm the address for beneficiary in demand guarantee is Babarmahal, Kathmandu, Nepal.	The address for beneficiary in demand guarantee is Babarmahal, Kathmandu, Nepal.
8.			What is the depth of the project's survey of the road, and does the construction unit need to re-survey the road?	It is a detailed design road project. With regard to re-survey of the road, please refer Standard Specification Clause 106.
9.			Which company is the design unit of this project, whether the design depth is conceptual design, preliminary design or construction drawing design, and whether design deepening is required	Please refer final design report uploaded at DoR website link: https://dor.gov.np/home/publication/report-of-project-under-srctip-dcid



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CLARIFICATION NO. 1

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]
Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

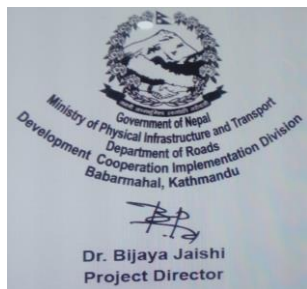
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
10.			In the process of retaining the old bridge and building the new bridge during the project, does it need to carry out the appearance review of the old bridge, the damage assessment of the bridge pier foundation, the bearing, and the superstructure of the bridge span?	For old bridges to be retained, bridge repair and maintenance work items are included in Bill of Quantities under sub-heading Bridge Repair and Rehabilitation.
11.			Does employer provide office campsites, temporary buildings, and other land for the contractor?	The Contractor shall be responsible for the contractor's office campsites, temporary buildings, and other land for the contractor.
12.			Are storage area and dumping waste material area provide by the employer?	Please refer Section VII D- Environmental and Social Management Plan (ESMP)
13.			Please provide the types and rates of taxes and fees that the contractor is required to pay for this project.	The Contractor shall pay all taxes/fees as per prevailing laws of Nepal.
14.			Has the employer completed all land acquisition works for this project?	Yes, it is completed.
15.			Can contractor extract local resources such as aggregate sand etc directly after paying resources tax from the proposed quarry by employer or is there any approval for other license fee?	It shall be governed by the prevailing laws of Nepal.
16.			What is the distance of km for dismantling structure?	Query is not clear. If the query is concerned about the disposal site for dismantling structure, please refer Section VII D- Environmental and Social Management Plan (ESMP) and Standard Specification/ Special Provisions to the Standard Specification Sub Section 202.



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CLARIFICATION NO. 1

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]
Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
17.			Has the employer approved for cutting of trees from ministry of forest and as well as other related departments? And also, will that cutting of trees need to be transport to proposed area, if yes then what would be the distance for transportation.	The preparatory works relating approval for cutting of trees from ministry of forest has been initiated. It is clarified that the cutting of trees needs to be transported by the contractor to the nearby locations recommended by respective division forest offices.
18.			The main report of detailed design table 4.12 provides the locations and estimated quantities for obtaining building materials, but the location information is not detailed enough. Can you provide detailed latitude and longitude coordinates for the above locations?	Please refer EIA report uploaded at DoR website link: https://dor.gov.np/home/publication/report-of-project-unde-r-srctip-dcid
19		Time Extension for submitting Bid document	Considering various circumstances, we kindly request you to consider for the time extension for at least One month from the deadline issued in a Bid Document of SRCTIP-DOR-W-KDP-ICB-4 (Lot 1,2 and 3).	Please refer to clarification provided for query no. 06.
20	Conflict of Interest	Clause 4 of ITB	4.2 "A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose..." 4.3 "A firm that is a Bidder (either individually or as a JV member) shall not participate in more than one Bid, except for permitted alternative Bids. This includes participation as a subcontractor in other Bids. Such participation shall result in the disqualification of all Bids in which the firm is involved. A firm that is not a Bidder or a JV member may participate ..." Kindly to clarify that, if same Group company different subsidiaries to tender for separate package will be acceptable or not. means, company A, B, C all belongs to one Group company, and company A tender for package 1, company B tender for	Bid Document's provisions ITB 4.2 and 4.3 are self-explanatory.

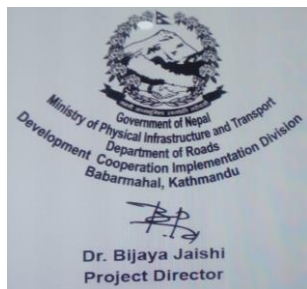


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CLARIFICATION NO. 1

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]

Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

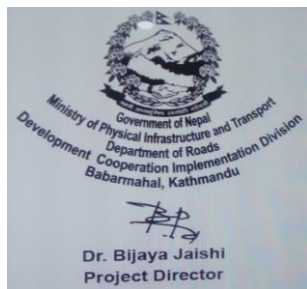
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
			package 2, company C tender for package 3.	
21	Quarry Site		As per EIA document, certain locations are pointed out for Quarry Site. But during site visit, we notice that other river also contain material suitable for respective lots. Q. Can contractors extract material from river which are not mentioned in EIA document?	Yes, contractors can extract material from river which are not mentioned in EIA document following prevailing laws of Nepal.
22	Tree cutting		As per site condition, in some location trees are marked and numbered also but, in some location, trees are marked only but not numbered. Q. Will this cause difference in number of trees as per actual site condition and as per BOQ quantity? Also the necessary procedure for tree cutting has been finalized or not?	Regarding difference in number of trees if any, it will be dealt by Engineer as per actual site condition and contractual provision. Also, please refer to clarification provided for query no. 17 regarding the query on tree cutting.
23	Bridge work		In Lot 2 Ratu Bridge, there are two existing bridge. As per the drawing the existing bridge on the south side will be dismantled and new bridge will be constructed on same location. Please Clarify.	Please refer the respective design drawing.
24		BOQ Item No 2.2.3 (1 & 2)	In general note of Bridge drawing, M50 & M45 grade concrete is not mentioned but BOQ item No 2.2.3 (1 & 2) contain certain quantity for M50 & M45 grade concrete. Please Clarify.	Please refer all bridge design drawings in detail.
25	Test Pile: Section 1600		As per our understanding one test pile will be done for each bridge and if result are found satisfactory to the engineer the pile shall be part of permanent structure. Q: Does the location of test pile can be selected along the bridge alignment at exact location of working pile as per design drawing. Also payment of test pile of each bridge will be done separately which is not provisioned in BOQ.	Please refer Standard Specification/ Special Provision to the Standard Specification Sub-section 1614 and Amendment no.01. It is clarified that payment of test pile will be made as per BOQ.



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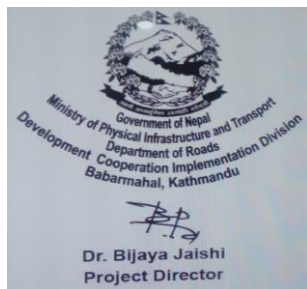
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
26	High Strain Dynamic Test (PDA) Section 1600		As per Bid Document, it is mentioned that “High Strain Dynamic Test shall be paid at the contract unit as provisioned in Bill of Quantities which shall be full compensation for Pile Instrumentation, Accelerometer, Strain transducer, Pile Driver Analyzer, Impact Pile Driving Hammer, labour, transportation, professionals, recording and reporting including all incidentals necessary to complete the test”. Also “Dynamic pile testing shall be carried out on one working pile for each substructure with pile foundation as selected by the Engineer”. However, there is difference in number of sub-structure with pile foundation and actual number mentioned in BOQ. Please Clarify.	Please refer SN. 3 of Amendment no. 01. The quantities in the BoQ in this regard remains unchanged.
27		PS (Item 1.4)	Q: According to the Bill of Quantities (BOQ), the relocation of NEA poles is the contractor’s responsibility. However, our understanding is that the actual process involves NEA tendering the section after the contract deposits the required amount. Could the employer please clarify if the tender for pole shifting by NEA has been completed? Additionally, could the contractor use the advance payment received to fulfill the NEA’s payment requirement, obtain a receipt from NEA as supporting documentation, and promptly submit it to the employer as an Interim Payment Certificate (IPC)? This approach would help maintain cash flow and afford NEA ample time for the tendering process. Please provide clarification.	The preparatory works for tendering of pole shifting by NEA is in process. Regarding your query as to use of the advance payment received to fulfill the NEA’s payment requirement, obtain a receipt from NEA as supporting documentation, and promptly submit it to the employer as an Interim Payment Certificate (IPC), it shall be in accordance with the provisions in the contract.
28	Bridge Drawing		According to “KDP PDF (Bridge Drawing)” in the tender, in the bridge engineering, many upper precast beams of the bridges are not equipped with a prestressed system, the spans of which range from 16m to 26.6m. Such bridges include Charnath, Baluwa, Jagadav Branch, Jagadav, JALAD, Aurahi, Basai, Sukhajor, etc., in Lot 1; Barahari, Bhapsi, Janga Pul-1, Gadhanta, Belgachhi (Dhungre Khola), Tuteshwor-1 (Both side), Tuteshwor-2 (Both side), Jarlahi (Kholasi Pul) (Both Side), Amuwa (Both Side), etc., in Lot 2; and Phuljor, Kalinjor-2, Dumdume (Both Side), Chapani, Dumajor, Godari (Both Side), Bagmati East, etc., in Lot 3. Please Clarify.	Please refer all bridge design drawings in detail.



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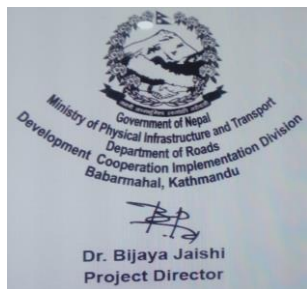
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
29	Typical Drawing		According to “Typical cross section and TCS schedule” drawings in the bidding document, in the standard cross-section, drainage pipes are embedded in both the left and right service roads and connected to the ditches on both sides; also, there are no longitudinal drainage pipes in the central median strip, which may cause the accumulated water not to be discharged in time. Is there is a design error? Please verify it.	There is no design error.
30		BOQ Item No 2.1.5 (7 & 8)	According to “Miscellaneous Drawing KDP” in the bidding document, M25 concrete is used in the Drain and its cover slab. However, according to the BOQ item 2.1.5 “Structures (Retaining Wall Structure Side Drains Cross Drainage Structure including Protection Work”, the quantity of M25 concrete provided is only 39 m ³ . Please verify its quantity. Please clarify.	Please refer Typical Drawing of Drain Section; Sheet no 16 of Typical Cross Section Details & Miscellaneous Drawings of SRCTIP-DOR-W-KDP-ICB-4 uploaded in DOR website link: https://dor.gov.np/home/publication/report-of-project-under-srctip-dcid
31			There is a provision that the lead member should employee from the Lead partner in the case of JV. Can this be relaxed to allow a member from other JV partner who is not a Lead member to act as Contactor's Representative/Contract Manager?	Bid Document’s provision in this regard remains unchanged.
32			In Time for access to the site 60% of site at Commencement Date and remaining 40% of site from 3 month of commencement date, can we know the reason behind it?	It is clarified that the right of access to the site is At Commencement Date . Please refer Particular conditions Part A (Contract Data) Sub-clause 2.1.
33			In provision for Quarries and Dumps we find " The Contractor shall develop site specific plan for operating quarry and spoil disposal area and shall get it approved from the Engineer prior to operation ... " Could you please specify the potential sources/place for quarry of materials and their distance to site?	Please refer to clarification provided for query no. 12.
34			As per PCC 4.2, the validity of Performance Security with value of 7.5% of Accepted	Bid Document’s provision in this regard remains



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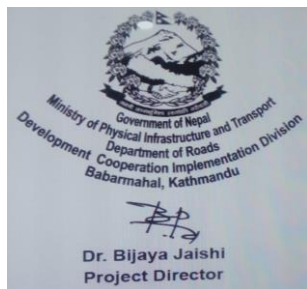
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
			Contract Amount shall be until completion of Defect Notification Period (DNP) plus 28 days whereas as per PCC 4.2.3 this performance security shall be released 28 days after issuance of Performance Certificate. As the Performance Certificate is issued 28 days after expiration of DNP, the Performance Security should be released 28 days after expiration of DNP. As per the prevailing Procurement rule, the PB is 5% can this be reduced.	unchanged.
35			The percentage rate to be applied to Provisional Sums for overhead charges and profit should be 15% overhead and 5% profit instead of 5% as specified in Sub Clause 13.4 (b)(ii) of PCC.	Bid Document's provision in this regard remains unchanged.
36			Have the tree cutting permit and relocation permits for electric poles be obtained. If not obtained, when can we expect this to be obtained?	Regarding the tree cutting permit, please refer to clarification provided for query no. 17. Also, please refer to clarification provided for query no. 27 regarding the query on relocation permits for electric poles.
37			Does PCC sub clause 14.8 mean that the financial charges for delayed payment shall be 2% above the average bank short term lending rate to prime borrowers prevailing for the currency of payment at the place for payment?	Bid Document's provision is self- explanatory.
38			The drawings for the bids are not sufficient, such as the Culverts, Retaining walls, Road Furniture and Traffic Safety Measures, Drainage, channel, Reinforced soil structure and etc.? Question: Please kindly provide the drawings/ typical drawings for the Culverts, Retaining walls, Road Furniture and Traffic Safety Measures, Drainage, channel, Reinforced soil structure and etc.?	For all drawings related to the project, please refer DOR website link: https://dor.gov.np/home/publication/report-of-project-under-srctip-dcid



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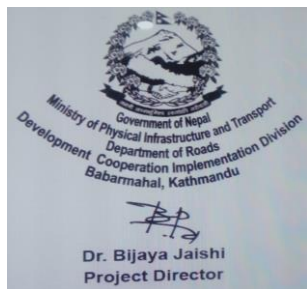
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
39			According to the Particular Conditions of Contract 4.27 Compensation for Land Occupied or Used by Contractor. Question: Please kindly indicate which land use shall be borne by the Contractor during the execution of the contract? Which land use shall be borne by the Employer?	Bid Document's provision is self- explanatory.
40			In the BOQ item for Road Construction Work: Roadway and unlined surface drain excavation in all types of soil as per drawing and technical specification, including all lift and lead as per drawing and instruction of the engineer (Spec Cl no 900) Question: If rock excavation is encountered during construction, is there any additional measurement and payment should be paid for rock excavation?	It will be dealt by Engineer as per site condition and contractual provision.
41	Section 1000 Subgrade		1.Sub-Section 1003 instructs to rip 150 mm in pavement and recompact. 2.But Sub-Section 1003 (6) instructs to rip 300 mm in pavement and for widening section and do recompact. 3.Sub-Section 1003 (6) a) Suggest to provide capping layer (imported material from borrow pits) if the subgrade is weaker than required which is measured as separate payment in per cu. m. in Sub-Section 1004. 1.What is the depth ripping or loosening 150 mm, 300 mm? 2.In case of weaker material found under the subgrade level shall we use capping layer or sub-base in replacement depths. 3.If we replace with granular imported capping layer of min. CBR 8%, how we are going to pay for this as separate payment if there is no provision in BOQ allotted?	1. It will be dealt by Engineer as per site condition and Standard specification/ Special Provision to the Standard Specifications. 2. Please refer Standard specification/ Special Provision to the Standard Specifications Sub-section 1002 (3). 3. Please refer Standard specification/ Special Provision to the Standard Specifications Sub-section 1003 (6).
42	Pile Tests	BOQ item No. 2.2.1.6	BOQ item No. 2.2.1.6 states: Carryout pile load test including all consumables and accessories as per test procedure mentioned in the Technical Specification.	It is clarified that the mentioned item includes both PDA test and static pile load test.



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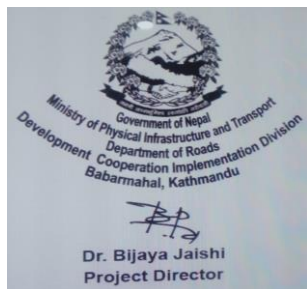
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
			Please clarify- which test it is? PDA test or static pile load test?	Also, Please refer Standard Specification/ Special Provisions to the Standard Specification Sub-section 1614 and Amendment no. 01.
43		BOQ item number 2.2.1.6	BOQ item number 2.2.1.6 states- Providing, Boring and installing bored cast-in-situ RCC pile excluding reinforcement and concrete in all types of soil including bentonite and other consumable and removal of excavated earth with necessary lifts and lead all complete as per Drawing and Technical Specifications. (Spec Cl no 1612)- (a)Please mention the diameter of pile and (b)Please provide soil report	Please refer all bridge design drawings in detail for pile diameter and soil profile.
44	Bearing	BOQ Item No. 2.2.3 (10) and (11)	Please provide the drawings and load data coming on it	Please refer bridge design drawings uploaded in DOR website link: https://dor.gov.np/home/publication/report-of-project-under-srctip-dcid
45	Expansion Joints	BOQ Item No. 2.2.3. (9)	Please provide the required drawings.	Please refer to clarification provided for query no. 44
46	Road Works	BOQ Item No. 2.1.4 Pavement	Why is preparation of subgrade to be measured in sq. m. not included in the BOQ separately widely adopted in DOR's practice?	Please refer BOQ, drawings and technical specifications. Also, please refer Amendment no.01.
47	Road Works	BOQ item No. 2.1.4.9	BOQ item No. 2.1.4.9 states: Cement Concrete Pavement: Construction of plain cement concrete pavement over a prepared sub- base spread, compacted and finished in a continuous operation as approved, curing compound, finishing to lines and grades as per drawing and Technical Specification (Spec Cl No 1319)- Please mention the grade of concrete.	Please refer General note no. 14 of Drawing name "General notes and Typical Details" and technical specifications.



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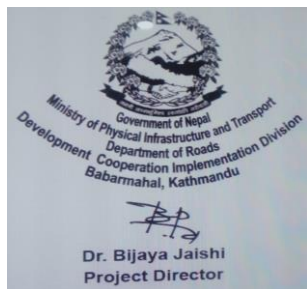
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
48	Road Works	BOQ item No. 2.1.4.10	BOQ item No. 2.1.4.10 states: Construction of Median and Island with approved suitable soil: Providing and laying Median and Island above road level with approved material including compaction as per Drawing and Specifications (Spec Cl no 1205)- Please provide the required drawings.	Please refer Typical Cross Section Details & Miscellaneous Drawings of SRCTIP-DOR-W-KDP-ICB-4 uploaded in DOR website link: https://dor.gov.np/home/publication/report-of-project-under-srctip-dcid
49	Section III Evaluation & Qualification Criteria		May the contractor submit all 3 sealed BOQs in a single envelope and one set technical document for combined all 3 Lots? Please Clarify.	It is clarified that bidder should submit all three bids separately with all required documents.
50			Please confirm whether the LOT-3 SEIA report has been approved. And who is responsible for the procedures for cutting of trees, dismantling wires, dismantling communication lines, and dismantling water pipes? What is the progress of the procedures now?	For EIA report, please refer clarification provided for query no. 18. Also, it is clarified that tree cutting, dismantling wires, dismantling communication lines, and dismantling water pipes are included in BOQ items that are to be executed by contractor. The contractor must have their proactive roles as stipulated in the contract. Employer will coordinate with the concerned agencies to cooperate the contractor and their activities under the contract as and wherever requested by the contractor. However, DOR has already initiated to work with relevant agencies to make the process easy after contractor initiate the works.
51			Please confirm whether the contractor will directly produce construction drawings based on the Bore hole section drawing, and please provide geological report.	The query is not clear. However, please refer General Arrangement drawing of bridges.



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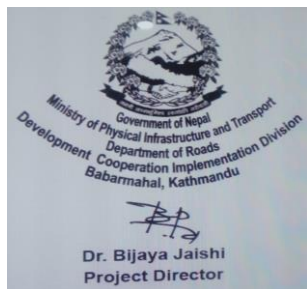
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52			There are many references in LOT-3 bid document to materials provided by the employer. Please confirm what materials the employer provides?	Please refer BOQ item no. 2.1.10.4 and Special Provisions to the Standard Specifications Sub-section 704.
53			In LOT-3, BOQ 2.1.5-12 has “Steel Drainer”, Can the employer give us the detailed drawing of “Steel Drainer”?	It will be dealt as per site condition and Special Provisions to the Standard Specifications Sub-section 3117.
54		Extension of bid submission deadline	Given the holidays for Eis-al-Fitr and the time required for preparation of bids for the three (3) lots, vide this letter, we humbly request the MOPIT (GON) to kindly extend the submission deadline date for the upcoming funded project under the WB namely “SRCTIP: Upgrading of Mahendra Highway KDB Road Section (km 238+030 to km 312+785)”, by a period of four (4) weeks.	Please refer to clarification provided for query no.06.
55	Eligibility and qualification Criteria, No. 4.2 (a)		In Eligibility and qualification Criteria, No. 4.2 (a): Specific Construction & Contract, i) Participation as a contractor, joint venture member, or subcontractor, in one road contract having four or more lane with at least 70 lane- kilometer that has been satisfactorily and substantially completed , please clarify with at least 70 lane-kilometer meaning.	Lane-kilometer means number of lanes multiplied by length of road (with four or more lane) in km.
56			For submitting bid document in Hard Copy, it needs to purchase hard copy from your office with paying of Bid Doc fee? And, if hard copy is purchased, bid can be submit online (electronically) using PPMO, e-GP Portal, pls clarify.	Yes. Bidders can submit electronically using PPMO e-GP portal, even if they have purchased hard copy. Also, please refer Notice of Request for Bids.
57	A- Qualification (i) Eligibility and Qualification		Participation as a contractor, joint venture member or subcontractor, at least in one Civil work contract under open international competition based on FIDIC or Multilateral Development Bank (MDB) contract document that has been satisfactorily and substantially completed, either in Nepal or in any other country outside the	The criteria in this regard remains unchanged.



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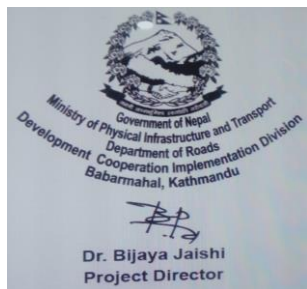
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	Criteria 4.2 (a) Specific Construction Experience (ii)		country of incorporation of the bidder, with minimum value of: a. Lot 1: 43 million USD b. Lot 2: 50 million USD c. Lot 3: 50 million USD d. Lot 1 and Lot 2 combined: 50 million USD e. Lot 1 and Lot 3 combined. 50 million USD f. Lot 2 and Lot 3 combined: 50 million USD g. Lot 1, Lot 2 and Lot 3 combined: 50 million USD For this requirement whole contract value shall be considered even bidder was participated as JV member (the Bidder's share, by value, shall not be considered). Q: We Request to consider for the updation of value of the Project by giving 10% simple weightage per year for the projects executed in the previous years to bring them to the current year price level i.e. 2024-25	
58	B- Qualification (i) Eligibility and Qualification Criteria 4.2 (a) Specific Construction Experience (ii)		Participation as a contractor, joint venture member or subcontractor, at least in one Civil work contract under open international competition based on FIDIC or Multilateral Development Bank (MDB) contract document that has been satisfactorily and substantially completed, either in Nepal or in any other country outside the country of incorporation of the bidder, with minimum value of: a. Lot 1: 43 million USD b. Lot 2: 50 million USD c. Lot 3: 50 million USD d. Lot 1 and Lot 2 combined: 50 million USD	The criteria in this regard remains unchanged.



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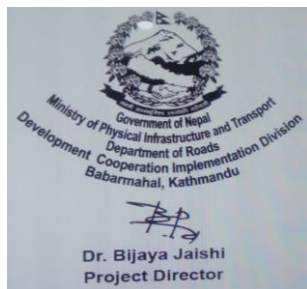
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			e. Lot 1 and Lot 3 combined. 50 million USD f. Lot 2 and Lot 3 combined: 50 million USD g. Lot 1, Lot 2 and Lot 3 combined: 50 million USD For this requirement whole contract value shall be considered even bidder was participated as JV member (the Bidder's share, by value, shall not be considered). Q: We request you to permit to utilize the credential of a specialist sub-contractor/ consultant by having an MOU meeting this specific criteria i.e. civil work contract open international competition based on FIDIC or Multilateral Development Bank (MDB) contract document that has been satisfactorily and substantially completed, either in Nepal or in any other country outside the country of incorporation.	
59	Experience Requirement of 4.2 b		Production rate of Asphalt Concrete works of Lot1, Lot 2 and Lot 3 combined: 60,000 Cum per year completed in any one year between 1st January 2016 and application submission deadline and production rate of construction of multilane bridge/ viaduct Lot 1, Lot 2 and Lot 3 combined: 800 m per year in any one year between 1st January 2016 and application submission deadline, whether it means that the quantities completed in any one single year during the period can meet this requirement, and don't needed to be completed in every year. For example, in regard to Asphalt Concrete works, we completed the quantities of 60,000 Cum in 2019, and had insufficient quantities in other years, can we meet the requirement?	Yes. It meets the requirement.
60		Current Composite Schedule of Rates (CSR)	I am preparing financial bid for Upgrading of Mahendra Highway Kamala-Dhalkebar- Bagmati Road Section and bridges (Km 238+030to km 312+785) project. I required CSR (COMPOSITE SCHEDULE OF RATES) for road works in Nepal for current year or any latest.	Please refer Norms for Rate Analysis of Road and Bridge Works 2075 published by Department of Roads (DOR).
61	Bridge	BOQ item no.6 (Page no	BOQ item no.6 (Page no 498 Lot 1 & 3) is for boring and installing bored cast in situ	



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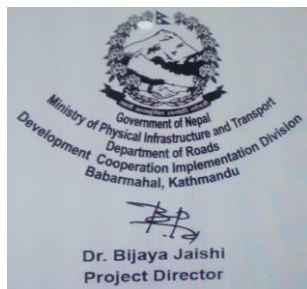
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
	construction works	498 Lot 1 & 3)	RCC pile... 1. Diameter of pile is not given 2. While looking into drawings, there are two types of piles. One is 1200 mm dia. And another is 1500 mm dia. for Charnath bridge. Our query is for which dia pile we have to quote? Similar is the case for Lot 3 (page 498) Chapani Bridge and Dumajor Bridge. Please Clarify.	1. Please refer to clarification provided for query no. 43 2. It is clarified that the bidder shall quote unit rate applicable for both cases under respective BOQ item as per drawings.
62		Lot 2 BOQ item no 6 (Page 505)	Lot 2 BOQ item no 6 (Page 505) is for boring and installing bored cast in situ RCC pile... 1. Diameter of pile not given. 2. Unit of boring given is cum. But should be in RM. Please clarify.	1. Please refer to clarification provided for query no. 43 2. Please refer amendment no. 01
63		Lot 3 BOQ item no 2.1.5 (12) (Page 487)	Lot 3 BOQ item no 2.1.5 (12) (Page 487) is for "Laying and fixing of steel drainage (100 mm dia.) at drainage opening...." Kindly provide the drawing of steel drainer.	Please refer to clarification provided for query no. 53
64		Lot 3 BOQ item no. 2.1.6 (27) Road Furniture (Page 492)	Lot 3 BOQ item no. 2.1.6 (27) Road Furniture (Page 492) is for "Providing and fixing of steel railing complete...." Kindly provide the required drawings.	Please refer Typical Details of Pedestrian Guard Rail; Sheet no 09 of Typical Cross Section Details & Miscellaneous Drawings of SRCTIP-DOR-W-KDP-ICB-4 uploaded in DOR website link: https://dor.gov.np/home/publication/report-of-project-unde-r-srctip-dcid



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
Development Cooperation Implementation Division
Strategic Road Connectivity & Trade Improvement Project
CLARIFICATION ON REQUEST FOR BID DOCUMENTS
Contract No. SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)
CLARIFICATION NO. 1

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]
Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

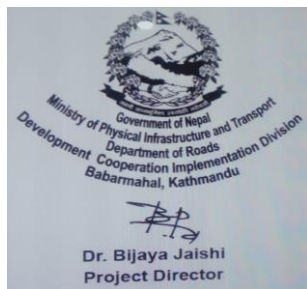
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
65	Site Clearance	BOQ 2.1.2 sub item 11	In the BOQ 2.1.2 Site Clearance Sub item 11 Dismantling of flexible pavements and disposal of dismantled Material, stacking serviceable and unserviceable Material separately, (Spec Cl no 202): (a) Bituminous course Question: Please specify the construction method of the dismantling of flexible pavement, is it using the method of excavation or through machinery for milling?	Please refer to Standard Specification/ Special Provisions to the Standard Specifications Sub section 202.
66			In the BOQ there is not mentioned the office/accommodation and facilities provided for the usage of Employer/Engineer. Question: Please kindly confirm who will be responsibility to provide such kind of facilities for use of Employer/Engineer?	Please refer to clarification provided for query no. 03
67			In the design report there is not mentioned the proposal dumping site. Question: Please kindly provide the location of potential dumping/disposal site for each lot, and specify the related distance of the dumping site for each lot.	Please refer to clarification provided for query no. 12.
68			As per the requirement of Employer which stated that may be construct Temporary division bridge at site. Question: Please kindly provide the proposed number, length & structural form of temporary division bridges for each lot.	Please refer to Special Provisions to the Standard Specifications Sub section 108 "Construction and Maintenance of Temporary Diversion Bridges" and bridge design drawings for each lot.
69			Please kindly confirm the method of measurement and payment for removal of landslides material which may occur during road construction and maintenance.	Please refer to Special Provisions to the Standard Specification Sub section 2916 "Emergency Works"
70			Whether the Employer shall assist to coordinate with the local department for obtain some permit certificates which may require during the construction or usage of public facilities as usage of local power/electricity?	It is clarified that the Employer will assist, if necessary, to coordinate with the local departments for such activities.



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CLARIFICATION NO. 1

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]
Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

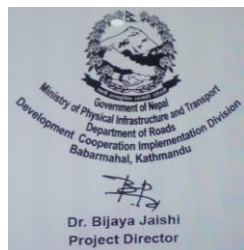
No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
71			Section IX - Particular Conditions of Contract : Sub-Clause 2.6 Employer-Supplied Materials and Employer's Equipment: "The Employer shall supply to the Contractor the Employer-Supplied Materials listed in the Specification 704, at the time(s) stated in the Specification. Does the owner provide materials and equipment to the contractor for usage of the project? Please list the materials and equipment that the owner will provide to the Contractor?	It is clarified that the Nepal Telecom shall only provide 40/33 PL-HDPE pipe and fittings as mentioned in BOQ item no. 2.1.10.4 under sub-heading Miscellaneous Works for Nepal Telecom.
72			202 Dismantling Structures, Bridges, Other Structures and Pavements (g) It is envisaged that some reusable construction materials might be obtained from the dismantling of the existing structures in the project road. The Contractor shall be permitted using those construction materials if they meet the standards provisioned in these Specifications. The Contractor is advised to assess the suitability and quote his price accordingly taking into consideration of using those re-usable materials from the dismantled structures. Question: How can the contractor to assess the suitability and quote the price for re-usable material from the dismantled structures? And who will be responsibility for the cost of the re-usage of the dismantled material?	The client believes that an experienced contractor is well aware of necessary assessment to be carried out for checking suitability of re-usable material from the dismantled structures.
73			We would like to apply some extensions of deadline for bid submission.	Please refer clarification provided for query no.06
74	Specification		Upon careful review of the bid documents, we have identified that the requirement for "50mm/70mm wide Geo synthetic strap soil reinforcement made of polyester yarns and encapsulated in LLDPE Sheathing with top three layers of soil reinforcement having high coefficient of apparent Friction (using trapezoidal grooves on both sides of the geo synthetic strap) and the minimum coefficient of apparent friction at the top most layer shall be 1.5, using active connectors between fascia and soil	Please refer Amendment no.01.



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CLARIFICATION ON REQUEST FOR BID DOCUMENTS
Contract No. SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)
CLARIFICATION NO. 1

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]
Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

No.	Chapter/ Section	Subject/ title/Item	Queries	Clarifications
			reinforcement” appears to be monopolistic in nature, as it pertains to a specific patented product offered by Terre-Armee. This restricts fair participation and competition, which is contrary to the principles of fair procurement practices outlined in the Public Procurement Management Office (PPMO) guidelines. Also, in the same paragraph, “... Complete up to 15 m wall height” has been mentioned which need to be omitted. By making this amendment, you would not only promote fair competition but also facilitate a broader range of qualified manufacturer, ultimately contributing to the successful execution of the project.	
75			According to the required files in the bidding document, it will take a little bit long time to prepare it properly. As you know, there is a Chinese holiday during May 1st, 2024 to May 5th, 2024. In order to make the impeccable document, we kindly request you can consider the extension of Bid Opening Date from May 10th, 2024 to May 30th, 2024	Please refer clarification provided for query no.06
76			I am writing to kindly request an extension of the submission deadline by at least 30 days. The reason for this request is due to the challenges involved in compiling and preparing most of the required documents from China. Given the difficulties involved, the current timeframe for submission would not provide us with sufficient time to complete our preparations adequately. Furthermore, I would like to bring to your attention that due to the Labor Day Holiday in China, all offices, both private and public sectors, will be closed from May 1st, 2024, until May 5th, 2024. This closure will significantly hamper our ability to finalize our proposal, including the issuance of a bid bond security for this project	Please refer clarification provided for query no.06



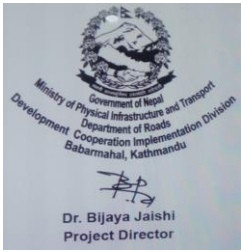
Ministry of Physical Infrastructure and Transport
Department of Roads
Development Cooperation Implementation Division
Strategic Road Connectivity & Trade Improvement Project
AMENDMENT ON REQUEST FOR BID DOCUMENTS
Contract No. SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)
AMENDMENT No.-2

Procurement of Works for Upgrading of Mahendra Highway Kamala-Dhalkebar-Bagmati Road Section [Km 238+030 to Km 312+785]

Contract Identification No. **SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)**

As per the provision of Instruction to Bidders and Bid Data Sheet (BDS), Amendment No.-2 has been issued as per following:

S.N.	Amendment On			Amended As		
1	Part 3 Conditions of Contract and Contract Forms; Section IX- Particular Conditions of Contract Part A- Contract Data For Lot-1, 2 & 3			Part 3 Conditions of Contract and Contract Forms; Section IX- Particular Conditions of Contract Part A- Contract Data For Lot-1, 2 & 3		
	List of proposed members of DAAB	21.1	Proposed by Employer: Shall be finalized within 42 days after the date of contract agreement Proposed by Contractor [Attach CVs to the Contract]	List of proposed members of DAAB	21.1	Proposed by Employer: 1. Mr. Giovanni DI FOLCO 2. Mr. Gerard P. Monaghan 3. Mr. Malith S. Mendis CVs attached in Annex -1 (CVs of proposed DAAB member) Proposed by Contractor [Attach CVs to the Contract] 1. _____ 2. _____ 3. _____



Ministry of Physical Infrastructure and Transport
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AMENDMENT ON REQUEST FOR BID DOCUMENTS
Contract No. SRCTIP-DOR-W-KDP-ICB-04 (Comprising LOTS 1, 2 and 3)
AMENDMENT No.-2

Annex -1 (CVs of proposed DAAB member)

CURRICULUM VITAE

Giovanni DI FOLCO

BSc., Civil Engineer
Adjudicator, Arbitrator &
Expert Witness
(Delay & Quantum)

Mobile: +40 743 046 910

giovanni.difolco@giovannidifolco.com
or giovanni.difolco@technoeng.com

STRENGTHS:

- Member of FIDIC President List of Certified Adjudicators;
- FIDIC Certified Adjudicator;
- FIDIC Member & Accredited Trainer;
- Project & Contract management expertise;
- Estimating, planning, cost analysis and contract administrative proficiency;
- Computer literacy;
- Safety management awareness;
- The ability to liaise effectively at all levels;
- Technical skills in the writing of causation analyses, technical-QA/QC reports / procedures, specifications and method statements;
- Design-Bid-Build, Design-Build, EPC, PPP, BOT, BOOT, Fast-Track, Partnering and Value Engineering knowledge;
- Project Planning/Scheduling, Claims Management/Resolution and Project Control;
- Knowledge of all FIDIC Conditions of Contract;
- Familiar with N.O.S.A. internationally acclaimed safety guidelines;
- Accomplished in Microsoft Excel, Word, PowerPoint, Microsoft Project, Primavera P3/P5/P6 and AutoCAD;
- Adept in packages for the evaluation of road pavements: Ekonopt, Surf, Winplus, Kenlayer, Kenslab, Airpave and DCP;

Foreword:

Giovanni Di Folco is a highly motivated expatriate **Civil Engineer, Dispute Board Member, International Arbitrator** and **Expert Witness** (Delay & Quantum) with nearly 35 years of professional experience. He is a **Member of the FIDIC's President List of Certified Adjudicators**, a **FIDIC Certified Adjudicator**, a **FIDIC Member and Accredited Trainer** and **Visiting Professor at Polytechnic of Milano University**. He is also the **Vice President** of the Romanian Associations of Consulting Engineers (**ARIC**), the **Past President** of the Dispute Resolution Board Foundation Region 2 Board (**DRBF**) and the **Vice President & Treasurer** of the European Court of Arbitration – Romanian Chapter. He is experienced in Project & Contract Management and Dispute Resolution, and is a Claims' Expert (Delay and Quantum) with extensive international experience gained in multi-disciplinary Civil Engineering Projects in *Italy, Norway, Sweden, Algeria, Ethiopia, Iran, Libya, South Africa, Kingdom of Lesotho, Sultanate of Oman, Qatar, UAE, Uzbekistan, Tajikistan, Kazakhstan, Greece, Bulgaria, Albania, Moldova, Turkey, India, Vietnam, Panama, Canada, Chile, Peru and Romania*, who attained professional recognition over the past thirty five years of experience in Civil Engineering and Disputes Resolution. He has demonstrated acumen for construction and design engineering and management at all levels, has an acute awareness of cost control and project planning, ability to provide an immediate and calculated response to situations both in the financial and technical sectors of the profession, who possesses proven ability to sustain responsibilities from high level management through to operational level. He possesses an openly communicative disposition at every level of management, with Consultants, Contractors, Owners/Employers, Government Officials, Banking and Insurance Institutions and has earned the respect and trust of many parties involved in this complex and demanding industry at every level over the years. He has an acute awareness of specific Country and International Law, the importance of quality and safety and the moral and legal responsibilities that they impose. Although a Specialist Pavement Engineer by profession, the international experience gained has enabled the development of his wide diversity of skills in Contract, Delay and Quantum Analyses, Planning Engineering, Construction law, Claims, Adjudication and Arbitration.

Education:

- BSc Degree in Civil Engineering
Major in Civil Engineering. Minor in Highways and Pavement design.

General experience:

- Adjudication and International Arbitration;
- Project/Contract Management and Contract Administration and Claim Resolution under international standards;
- Mechanistic-Empirical Pavement Design, Road/Pavement Management;
- Rehabilitation of High and Low Volume roads (Pavement Design and Construction);
- Land & Quantity Surveying and Roads Design/Construction in General;



Sos. Erou Iancu Nicolae nr. 103
Vila H10, Gamma - Delta Rezidential
Voluntari 077190 - ILFOV
Romania

- Soil stabilization techniques with conventional and alternative chemical products;
- Bulk earthworks management, deep in-situ impact compaction techniques;
- Alternative Road Surfacing: Slurry/Cape Seals, Stone and Sand Seals, Micro-surfacing and Asphalt technology (Design, manufacturing and application);
- Laboratory and Geotechnical soil mechanics analysis, testing, evaluation & investigation;
- Pipelines, dams and roller-compacted concrete technology;
- Structural concrete works (bridges, reservoirs & foundations), concrete repairs and construction chemicals choice and application knowledge;
- Tunneling construction, boring and blasting;
- Water/sewer waste treatment and reticulation works;
- Design and Construction of Roads, Motorways, Railways and Airports;
- High Voltage Power lines and substations' civil works and erection experience.

Recent quotes from the Legal Directories include:

- *"Global Leader and one of the World's leading practitioners in the field of Consulting Experts 2020 – Giovanni Di Folco is brilliant in cross-examination and connects with the room in a great manner. Peers describe him as robust, clear and very capable"* – **Who's Who Legal 2020 Experts – Financial Advisory and Valuation – Quantum of Damages**



- *"World's leading practitioner in the fields of arbitration, adjudication and expert witness in delay and quantum – Arbitration 2021. He has a tireless commitment to his clients, a deep knowledge of the construction sector and commercial acumen. He is articulate both orally and in writing, which makes him a foremost practitioner in his field. He is meticulous in his preparation and knows how to make a point without overstating it."* - **Who's Who Legal 2021: Arbitration Expert Witnesses – Delay and Quantum**



- *“Among the world’s leading lawyers and experts in Arbitration. He is one of the finest tactical minds I have ever seen. He is an astute engineer and a skilled advocate, particularly on technical construction issues. Giovanni is committed to achieving the best results possible for his clients. He is a master of cross-examination.” - Who’s Who Legal 2022 - Arbitration Experts*



Giovanni Di Folco

Techno Engineering & Associates Group
Arbitration Expert Witnesses 2022

Peers and clients say: “He is one of the finest tactical minds I have ever seen”
“He is an astute engineer and a skilled advocate, particularly on technical construction issues”
“Giovanni is committed to achieving the best results possible for his clients”
“He is a master of cross-examination”



[View the professional biography at whoswholegal.com](https://www.whoswholegal.com)

- Recognized as **Thought Leader** and **Global Leader** in **International Arbitration**. Who’s Who Legal and GAR described Mr. Di Folco as *“An astute engineer and a skilled advocate, particularly on technical construction issues. A master of cross-examination, committed to achieving the best results possible for his clients, being one of the finest tactical minds peers and clients have ever seen.” - Who’s Who Legal 2022 - Arbitration Thought Leaders*



Giovanni Di Folco

Techno Engineering & Associates Group
Thought Leaders - Arbitration Expert Witnesses
2022

Peers and clients say: “He is one of the finest tactical minds I have ever seen”
“He is an astute engineer and a skilled advocate, particularly on technical construction issues”
“Giovanni is committed to achieving the best results possible for his clients”
“He is a master of cross-examination”



[View the professional biography at whoswholegal.com](https://www.whoswholegal.com)

- Recognized as **Thought Leader in International Arbitration Expert Witnesses**. Who’s Who Legal said *“Giovanni Di Folco receives emphatic endorsements for his arbitration expertise and is described as “a remarkable delay expert” with “huge knowledge regarding construction process and the methodologies.” - Who’s Who Legal 2023 - Arbitration Thought Leaders*



Giovanni Di Folco

Techno Engineering & Associates Group
Thought Leaders - Arbitration Expert Witnesses
2023

WWL says: Giovanni Di Folco receives emphatic endorsements for his arbitration expertise, and is described as “a remarkable delay expert” with “huge knowledge regarding construction process and the methodologies”



[View the professional biography at whoswholegal.com](https://www.whoswholegal.com)



Claims Preparation / Resolution / Expert Witness Experience:

- Principal claim expert (Causation, Delay and Quantum Analysis) and/or Expert Witness during the preparation and resolution of over two hundred fifty claims for Extension of Time and compensation for disruption, prolongation, acceleration and damage during the period 2004 to 2020.

Dispute Adjudication Experience:

- Adjudicator/Dispute Board, and/or Counsel and/or Delay Expert and/or Quantum Expert while deciding or representing/defending various International Entities or Clients during **more than one hundred thirty** International Dispute Adjudication Procedures under FIDIC Red, Pink, Yellow and Silver books, 1st Edition 1999, and 2nd Edition 2017 during the period 2004 to 2021.

International Arbitration Experience:

- Counsel or Arbitrator or Forensic Delay and/or Quantum Expert during International Arbitrations under the International Chamber of Commerce (ICC) and UNCITRAL Rules in **more than sixty** International Arbitration procedures, during the period 2004 to 2021.

Project Management Experience:

- Involved in Project Management since 1986. Experienced planning engineer covering both the contracting and consulting industries. In-depth knowledge of network scheduling techniques and Critical Path Methods for the planning and management of projects and resources in construction practice. Experienced in Risk Analysis and Risk management. Knowledgeable with Work Breakdown Structures (WBS) planning techniques. Expert in the preparation of Project Management Plans. Accomplished in the use of Project Management software such as Primavera P3/P6, Sure Track, TSP, Monte Carlo, MS Projects and Expedition. Over the years was involved with managing, organizing and staffing project offices, teams and construction sites, pricing and estimating, cost control, trade-off analysis, risk management, quality management, contracts and procurement. Experienced in the assessment and mitigation of delays, claims and compensation using methodologies such as: Time Impact Analysis, Retrospective Delay Analysis, As-Built vs As-Planned and Collapsed As-Built Analysis.

Memberships, Fellowships and Academic affiliations:

- Listed on the FIDIC President List of Certified Adjudicators;
- Member and Vice President of Romanian Association of Consulting Engineers (**ARIC**)
- Listed on ARIC President List of Romanian Adjudicators and Experts;
- Fellow of Dispute Board Federation (EU);
- Director and President-Elect of Dispute Resolution Board Foundation Region 2 (USA);
- Director of Italian Chamber of Commerce for Romania;
- Fellow of Prime Dispute;
- Member of Project Management Institute (USA);



- Member of American Concrete Pavement Association (USA);
- Visiting Professor at Polytechnic University of Milan, Italy. Teaching international adjudication and arbitration, contract management, delay and quantum analyses.

Awards:

- Primavera Inc. Man of the Year Award (received in Romania in 2007) for excellence in contributing to planning and delay analysis using the Primavera Software. Issued by Primavera Inc. USA in association with TotalSoft Romania;
- Win of the Year 2003 Award. Issued by Parsons Group USA in Appreciation for Outstanding Leadership and Performance.

Authoring of Technical and Legal Papers and Books:

To promulgate Project & Contract Management, Civil Engineering and Dispute Adjudication matters, Giovanni Di Folco over the years has authored manuals, procedures, agreements, technical reports and presentation papers, which are listed below:

- **Guidelines Report for the Preliminary Land Surveying of Dam Sites**, edited in South Africa in 1988; (International Article)
- **Quality Management Manual for Sub-Station Civil Works and The Refurbishment of Indoor Sub-Station Buildings**, edited in South Africa in 1994; (Manual)
- **Project Management/Construction Manual for Site Managers and QA/QC Engineers**, edited in the Sultanate of Oman in August 1995; (Manual)
- **Sub-Contract/Vendor's Agreement for the Sulphonate Petroleum Products Treatment and Slurry Seal Surfacing of Unpaved Roads on behalf of Petroleum Development Oman (Limited)**, edited in the Sultanate of Oman in August 1995; (Manual)
- **Alternative construction methods by using Deep Impact Rolling Techniques**, edited in South Africa in 1996; (International Article)
- **QA/QC manual for the stabilization of unpaved roads**, edited in the Sultanate of Oman in August 1998; (Manual)
- **Compendium for the design and supervision of gravel wearing course stabilized with an Ionic stabilizer**, edited in the Sultanate of Oman in January 1999; (Manual)
- **Report on the causes of early cracking and remedial measures to the concrete pavement from km 14+446 to km 25+320 - Carriageway II of Bucharest to Constanta Sub Section 1 Motorway - Romania**, edited in Romania in September 2003; (Expert Report)
- **Contract Management presentation regarding FIDIC Red Book**, edited in Abu Dhabi for Parsons Group Pasadena (USA), International Management Meeting, February 2004;
- **Project & Contract Management and preparing for claims** - Presented at Challenges of International Contracting in Romania Workshop, November 2006; (International Article)
- **Dispute Boards a Contractor's Perspective** - Presented at the Dispute Resolution Board Foundation International Conference in Bucharest, Romania, May 2007; (International Article)



- **The use of the Primavera Software in the Management of infrastructure projects in Romania** - Presented at Oracle - Primavera Inc International conference in Romania, October 2007;
- **Driving our ways with Primavera PM** - Presented at PMI Project management Forum in Bucharest, Romania, November 2008; (International Article)
- **Using Dispute Boards - Why? Best Use / Wrong Use of Dispute Boards** - Presented at the DRBF Training Workshop and Regional Conference in Bucharest, Romania, October 2009; (International Article)
- **Using Dispute Boards, the Romanian Experience** - Presented at the Dispute Board Federation Winter Symposium in Istanbul, Turkey, November 2009; (International Article)
- **Enforcement of a DAB Decision through an ICC Final Partial Award** – Published by Dispute Board Federation worldwide, September 2010. (International Article)
- **What Contractors Think of DABs 10 Years after using FIDIC 1999 Contracts** - Published by Dispute Resolution Board Foundation in 2012. (International Article)
- **Enforcement of DAB Decision in Arbitration** – Published by Dispute Resolution Board Foundation in June 2015. (International Article)
- **How DBs reduce costs and save money** - Published by Dispute Resolution Board Foundation in 2018. (International Article)
- **Construction Arbitration in Central and Eastern Europe: Contemporary Issues** - Wolters Kluwer. (Published Book as Co-Author, Edited by Dr. Crina Baltag and Dr. Cosmin Vasile)
- **Some COVID-19 Impacts are here for good** – (Published as Co-Author in the November 2020 edition of the Construction Law Magazine. (International Article)
- **An informal introduction to Alternative Dispute Resolution (ADR) Procedures** - Published by Dispute Resolution Board Foundation in Forum Newsletter last quarter 2020. (international Article)

Representative Dispute Resolution Experience in detail for the period 2015 - 2021:

Please see **Appendix 1** to CV below:





APPENDIX 1

Giovanni Di Folco

**CONFIDENTIAL
DISPUTE
ADJUDICATION &
ARBITRATION
PARTICULARS
2015 - 2023**

DISPUTE RESOLUTION EXPERIENCE

**MR GIOVANNI DI FOLCO REPRESENTATIVE DISPUTE RESOLUTION
EXPERIENCE AS EITHER APPOINTED ADJUDICATOR OR COUNSEL OR
DELAY EXPERT OR QUANTUM EXPERT IN INTERNATIONAL
ADJUDICATION AND ARBITRATION PROCEEDINGS DURING THE
PERIOD 2015 TO 2023.**



**AS APPOINTED
DISPUTE BOARD MEMBER
OR DAB/DB/DAAB CHAIRMAN
DURING THE PERIOD
2015 - 2022**

Dispute Adjudication Particulars	Project and Country
1. September 2015 – In the matter of a consolidated dispute between a Greek Main Civil Contractor and an Indian M&E Subcontractor governed by modified FIDIC Red Book 1st Edition 1999 contract conditions, Mr Giovanni Di Folco was appointed a Chairman of the DAB. The DAB was of the ad hoc type. The appointment was made by the two DAB's Members that had been appointed by the Parties.	Construction of Sport Stadium in Qatar.
2. March 2016 – In the matter of a consolidated dispute between an Italian EPC Main Oil & Gas Contractor and a Spanish Industrial Subcontractor governed by modified FIDIC Silver Book 1st Edition 1999 contract conditions, Mr Giovanni Di Folco was appointed as one of the Members of the DAB. The DAB was of the ad hoc type. The appointment was made by the Spanish Subcontractor.	Modernization of Hydrocarbon Plants in the Sultanate of Oman.
3. July 2017 – In the matter of a consolidated dispute between a German Main Building Contractor and an UAE M&E Subcontractor governed by modified FIDIC Yellow Book 1st Edition 1999 contract conditions, Mr Giovanni Di Folco was appointed as one of the Members of the DAB. The DAB was of the ad hoc type. The appointment was made by the German Contractor.	Design and Build of Towers Complex in Qatar.
4. June 2018 – Mr Giovanni Di Folco was appointed as Sole Member DAB as proposed by the Appointing Entity and by agreement of the Parties, comprising an Oil & Gas Company as Owner and an Austrian Oil & Gas Main Contractor. The DB is of the standing type and is ongoing. The project is governed by modified FIDIC Red Book 1st Edition 1999 contract conditions	Construction of gas Pipeline in Kazakhstan.
5. November 2018 – In the matter of a consolidated ad hoc dispute between a Jordanian Main building Contractor and an UAE's Developer governed by modified FIDIC Red Book 1st Edition 1999 contract conditions, Mr Giovanni Di Folco was appointed a Chairman of the three Members' DAB. The DAB was of the ad hoc type. The appointment was proposed by the two DAB's Members that had been appointed by the Parties and ratified by the Parties.	Construction of Highrise Buildings complex in Dubai, UAE.
6. March 2019 – In the matter of a consolidated dispute between an UAE Main Civil Contractor and a Portuguese MEP Subcontractor governed by modified FIDIC Silver Book 1st Edition 1999 contract conditions, Mr Giovanni Di Folco was appointed as the DAB's Chairman. The DAB was of the ad hoc type. The appointment was made by agreement of the parties by the two DAB's Members that had been appointed by the Parties.	Expansion and Modernization of Wastewater Treatment Plant in Ethiopia.

7. October 2019 – In the matter of a consolidated dispute between a Spanish Main Contractor and a Vietnamese Employer governed by modified FIDIC Yellow Book 1 st Edition 1999 contract conditions, Mr Giovanni Di Folco was appointed as DAB's Chairman. The DAB was of the ad hoc type. The appointment was made by the two DAB's Members that had been appointed by the Parties.	Rehabilitation of two Railway Lots in Vietnam .
8. February 2020 – Mr Giovanni Di Folco was appointed as Sole Member DAB as proposed by the Appointing Entity and by agreement of the Parties, comprising a Spanish Main Contractor and a Peruvian Employer. The DB is of the standing type and is ongoing. The project is governed by modified FIDIC Red Book 1 st Edition 1999 contract conditions.	Construction of Highway Bypass in Peru .
9. July 2020 – Mr Giovanni Di Folco was appointed as DB Chairman of a three members Dispute Board, as proposed by the DB Members and approved by the Parties, comprising a German Main Contractor and an Uzbekistan Employer. The DB is of the standing type and is ongoing. The project is governed by modified FIDIC Pink Book 2010 Edition contract conditions.	Construction of Wastewater Treatment Plant in Uzbekistan .
10. August 2020 – Mr Giovanni Di Folco was appointed as Sole Member standing Dispute Board by the Parties. The project is governed by modified FIDIC Pink Book 2010 Edition contract conditions.	Reconstruction of sewerage networks in Uzbekistan .
11. March 2021 – Mr Giovanni Di Folco was appointed as Member of a three persons Dispute Board by the President of FIDIC. The project is governed by modified FIDIC Pink Book 2005 Edition contract conditions.	Construction of Port Infrastructure (Roads and Bridges) in Vietnam .
12. January 2022 – Mr Giovanni Di Folco was appointed as Member of a three persons Dispute Board by the President of FIDIC. The project is governed by modified FIDIC Red Book 1999 1 st Edition contract conditions.	Renovations and Upgrading of Crown Plaza Complex Project Dubai, UAE .
13. March 2022 – Mr Giovanni Di Folco was appointed as Member of a three persons Dispute Board by the Appointing Authority. The project is governed by modified FIDIC Pink Book 2010 Edition contract conditions.	Contract Package No. 06: Design, Supply and Install the 1 st Rail System: Hanoi Pilot Light Railway Station, Section Nhon – Hanoi Railway Station. Hanoi, Vietnam .
14. March 2023 – Mr Giovanni Di Folco was appointed as DAAB Member of a three persons Dispute Avoidance Adjudication Board by the Contractor. The project is governed by the FIDIC Red Book 2017 2 nd Edition.	RIX Rail Baltica Works Project. Latvia

15. May 2023 – Mr Giovanni Di Folco was appointed as DAB Member of a three persons Dispute Adjudication Board by the Contractor. The project is governed by the FIDIC Design Build and Operate Gold Book.	Greater Male Waste to Energy Project. Maldives
16. August 2023 – Mr Giovanni Di Folco was appointed as DAB Member of a three persons Dispute Adjudication Board by the Georgian Chamber of Commerce and Industry.	Waste Water Treatment Plant in Georgia .

**AS EITHER APPOINTED COUNSEL OR
DELAY EXPERT OR QUANTUM EXPERT
IN INTERNATIONAL DISPUTE
ADJUDICATION MATTERS¹
DURING THE PERIOD
2015 - 2021**

¹ Reference to dates may mean appointment's date as either Counsel, Delay Expert or Quantum Expert or date when DAB Decision was given.

Dispute Adjudication Particulars	Project & Country
1. In the matter of a consolidated dispute between Israeli Contractor and Romanian Public Authority. February 2015.	Rehabilitation of National Road in Romania.
2. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. March 2015.	Design & Build of Railway in Turkey.
3. In the matter of a consolidated dispute between Italian + Spanish Contractors in JV and a Romanian Public Authority. March 2015.	Design and Build of Motorway in Romania.
4. In the matter of a consolidated dispute between Italian + German Contractors in JV and Romanian Public Authority. March 2015.	Design and Build of Motorway in Romania.
5. In the matter of a consolidated dispute between Italian Contractor and Romanian Public Authority. March 2015.	Design and Build of Motorway in Romania.
6. In the matter of a consolidated dispute between Israeli Contractor and Romanian Public Authority. April 2015.	Rehabilitation of National Road in Romania.
7. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. April 2015.	Design & Build of Railway in Turkey.
8. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. May 2015.	Design & Build of Railway in Turkey.
9. In the matter of a consolidated dispute between Spanish Contractors in JV and Romanian Public Authority. May 2015.	Design and Build of Motorway in Romania.
10. In the matter of a consolidated dispute between Spanish Contractors in JV and Romanian Public Authority. June 2015.	Design and Build of Motorway in Romania.

11. In the matter of a consolidated dispute between Italian + German Contractors in JV and Romanian Public Authority. July 2015.	Design and Build of Motorway in Romania.
12. In the matter of a consolidated dispute between Spanish Contractors in JV and Romanian Public Authority. July 2015.	Design and Build of Motorway in Romania.
13. In the matter of a consolidated dispute between Italian Contractor and Romanian Public Authority. December 2015.	Design and Build of Motorway in Romania.
14. In the matter of a consolidated dispute between Italian + German Contractors in JV and Romanian Public Authority. January 2016.	Design and Build of Motorway in Romania.
15. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. February 2016.	Design and Build of Railway in Turkey.
16. In the matter of a consolidated dispute between Spanish Contractor and Romanian Public Authority. February 2016.	Design and Build of Motorway in Romania.
17. In the matter of a consolidated dispute between Spanish Contractors in JV and Romanian Public Authority. April 2016.	Design and Build of Motorway in Romania.
18. In the matter of a consolidated dispute between Spanish Contractor and Romanian Public Authority. May 2016.	Construction of Access Road and Railway Infrastructure in Romania.
19. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. June 2016.	Design and Build of Railway in Turkey.
20. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. July 2016.	Design and Build of Railway in Turkey.
21. In the matter of a consolidated dispute between Spanish Contractor and Romanian Public Authority. July 2016.	Construction of Motorway in Romania.

22. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. August 2016.	Design and Build of Railway in Turkey.
23. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. August 2016.	Design and Build of Railway in Turkey.
24. In the matter of a consolidated dispute between Spanish Contractors in JV and Romanian Public Authority. September 2016.	Rehabilitation National Road in Romania.
25. In the matter of a consolidated dispute between Spanish Contractor and Romanian Public Authority. September 2016.	Rehabilitation of National Road Romania.
26. In the matter of a consolidated dispute between Spanish Contractor and Romanian Public Authority. October 2016.	Construction of Access Road and Railway Infrastructure in Romania.
27. In the matter of a consolidated dispute between Israeli Contractor and Romanian Public Authority. October 2016.	Construction of Motorway By-pass in Romania.
28. In the matter of a consolidate dispute between and Italian Contractor and an Albanian Public Authority. November 2016.	Construction of Motorway By-pass in Albania.
29. In the matter of a consolidated dispute between Spanish Contractors in JV and Romanian Public Authority. February 2017.	Design and Build of Motorway in Romania.
30. In the matter of a consolidated dispute between Spanish + Italian Contractors in JV and Romanian Public Authority. March 2017.	Rehabilitation of National Road in Romania.
31. In the matter of a consolidated dispute between Spanish + Italian Contractors in JV and Romanian Public Authority. May 2017.	Design and Build of Motorway By-pass in Romania.
32. In the matter of a consolidated dispute between Spanish Contractor and Romanian Public Authority. June 2017.	Rehabilitation of National Road in Romania.

33. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. August 2017.	Design and Build of Railway in Turkey.
34. In the matter of a consolidated dispute between Spanish + Italian Contractors in JV and Romanian Public Authority. September 2017.	Construction of Motorway in Romania.
35. In the matter of a consolidated dispute between Israeli Contractor and Romanian Public Authority. November 2017.	Rehabilitation of National Road in Romania.
36. In the matter of a consolidated dispute between Spanish Contractor and Romanian Public Authority. January 2018.	Rehabilitation of National Road in Romania.
37. In the matter of a consolidated dispute between Spanish Contractors in JV and Romanian Public Authority. February 2018.	Design and Build of Motorway in Romania.
38. In the matter of a consolidated dispute between Italian + Spanish Contractors in JV and Romanian Public Authority. February 2018.	Construction of Underground Metro in Romania.
39. In the matter of a consolidated dispute between Spanish Contractor and Turkish Public Authority. February 2018.	Design and Build of Railway in Turkey.
40. In the matter of a consolidated dispute between Spanish Contractors in JV and Romanian Public Authority. October 2018.	Design and Build of Motorway in Romania.
41. In the matter of a consolidated dispute between Italian Contractor and Albanian Public Authority. October 2018.	Construction of Motorway By-Pass in Albania.
42. In the matter of a consolidated dispute between Italian Contractor and Albanian Public Authority. November 2018.	Construction of Motorway By-Pass in Albania.
43. In the matter of a consolidated dispute between Spanish Contractor and Public Authority of the Republic of Moldova. November 2018.	Construction of Motorway By-Pass in Moldova.

44. In the matter of a consolidated dispute between Spanish Contractor and Public Authority of the Republic of Moldova. November 2018.	Rehabilitation of National Road in Moldova
45. In the matter of a consolidated dispute between a Joint Venture comprising Italian, Spanish and Romanian contractors and a Romanian Public Authority. May 2019.	Construction of underground metro in Romania.
46. In the matter of a consolidated dispute between a Joint Venture comprising Italian, Spanish and Romanian contractors and a Romanian Public Authority. August 2020.	Construction of underground metro in Romania.
47. In the matter of a consolidated dispute between a Greek contractor and a Romanian Public Authority. February 2021.	Rehabilitation of a national road in Romania.
48. In the matter of a consolidated dispute between a Joint Venture comprising Italian and Romanian contractors and a Romanian Public Authority. May 2021.	Construction of underground metro in Romania.

**AS EITHER APPOINTED COUNSEL, OR
ARBITRATOR, OR DELAY EXPERT OR
QUANTUM EXPERT
IN INTERNATIONAL ARBITRATION
MATTERS²
DURING THE PERIOD
2015 - 2018**

² Reference to dates may mean appointment's date as either Counsel, Delay Expert or Quantum Expert or date when Award was given.

Arbitration Particulars	Project and Country
1. ICC Case # 21205/MHM. In the matter of arbitration between Israeli Contractor and Romanian Public Authority. July 2015.	Design and Build of National Road Rehabilitation Romania.
2. ICC Case # 21328/MHM. In the matter of arbitration between Italian Contractor and Romanian Public Authority. September 2015.	Design and Build of Motorway in Romania.
3. ICC Case # 21413/MHM. In the matter of arbitration between Israeli Contractor and Romanian Public Authority. October 2015.	Design and Build of National Road Rehabilitation Romania.
4. ICC Case # 21466/MHM. In the matter of arbitration Spanish Contractors in JV and Romanian Public Authority. November 2015.	Design and Build of Motorway in Romania.
5. ICC Case # 21488/MHM. In the matter of arbitration between Spanish + Italian Contractors in JV and Romanian Public Authority. November 2015.	Design and Build of Motorway in Romania.
6. ICC Case # 21572/MHM. In the matter of arbitration between Spanish + Italian Contractors in JV and Romanian Public Authority. January 2016.	Construction of Motorway in Romania.
7. ICC Case # 21775/MHM. In the matter of arbitration between Spanish Contractors in JV and Romanian Public Authority. March 2016.	Design and Build of Motorway in Romania.
8. ICC Case # 21910/MHM. In the matter of arbitration between Spanish Contractor and Romanian Public Authority. April 2016.	Rehabilitation of National Road in Romania.
9. ICC Case # 22001/MHM. In the matter of arbitration between Spanish Contractor and Romanian Public Authority. June 2016.	Rehabilitation of National Road in Romania.
10. ICC Case # 22145/MHM. In the matter of arbitration between Italian + German Contractors in JV and Romanian Public Authority. July 2016.	Design and Build of Motorway in Romania.

11. ICC Case # 22704/MHM. In the matter of arbitration between Spanish Contractor and Romanian Public Authority. March 2017.	Rehabilitation of National Road in Romania.
12. ICC Case # 23132/MHM. In the matter of arbitration between Israeli Contractor and Romanian Public Authority. October 2017.	Construction of Motorway By-pass in Romania.
13. ICC Case # 23635/MHM. In the matter of arbitration between Israeli Contractor and Romanian Public Authority. May 2018.	Design and Build of National Road in Romania.
14. ICC Case # 23853/MHM. In the matter of arbitration between Israeli Contractor and Romanian Public Authority. August 2018.	Design and Build of National Road in Romania.
15. ICC Case # 24093/MHM. In the matter of arbitration between Italian Contractor and Georgian Public Authority. November 2018.	Construction of Motorway in Georgia.
16. ICC Case # 24143/MHM. In the matter of arbitration between Spanish + Italian Contractors in JV and Romanian Public Authority. December 2018.	Construction of Motorway in Romania.
17. ICC Case # 24145/MHM. In the matter of arbitration between German Subcontractor and Italian Contractor. December 2018.	Construction of Tunnel in Georgia.

CURRICULUM VITAE

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+353 87 2371078

Email: gerardpmonaghan@gmail.com

Profile

Chartered Engineer, Chartered Arbitrator, Fellow at the Chartered Institute of Arbitrators and CEDR Accredited Mediator. Over 30 years' experience in the engineering and construction industry involved in the design, procurement, technical and commercial management of major construction projects and capital investment programmes. Very experienced DAB/DAAB member for Multilateral Development Bank (MDB) funded projects in the Africa and Asia. Experienced ADR professional having acted as arbitrator, mediator, conciliator, adjudicator and expert for construction disputes.

Expertise in the resolution of contentious and non-contentious matters in construction contracts including dispute avoidance. Member of the FIDIC Contracts Committee Task Group 9 as Principal Drafter of the Yellow, Red and Emerald Book Subcontract forms.

Academic and Professional Qualifications

FIDIC Certified Adjudicator (President's List)
Chartered Arbitrator, CI Arb
Fellow, The Institution of Engineers or Ireland,
Fellow, The Chartered Institute of Arbitrators,
Chartered Engineer
Adjudication Conversion Course, Chartered Institute of Arbitrators, CI Arb 2014
Accredited Mediator, Centre for Effective Dispute Resolution, CEDR 2013
Diploma in Arbitration, School of Law, University College Dublin, 2010
MBA, Smurfit Business School, University College Dublin, 2008
Diploma in Construction Law and Contract Administration, Trinity College Dublin, 2000
MSc. Civil Engineering, Queens University of Belfast, 1994
BEng (Hons) Civil Engineering, Queens University of Belfast, 1993

ADR Panels and Professional Institutes

FIDIC President's List of Approved Dispute Adjudicators
Presidential Panel of Arbitrators at the Chartered Institute of Arbitrators (CI Arb)
Minister's Panel of Adjudicators, Construction Contracts Act 2013.
Arbitration Panel at Engineers Ireland
Adjudication Panel at Engineers Ireland
Conciliation Panel at Engineers Ireland
Law Society (Ireland) Arbitration Panel
National Contractual Dispute Services Panel at the Construction Industry Federation (CIF)
Arbitration Panel at the Chartered Institute of Arbitrators (CI Arb) Irish Branch
Adjudication Panel at the Chartered Institute of Arbitrators (CI Arb) Irish Branch
Conciliation Panel at the Chartered Institute of Arbitrators (CI Arb) Irish Branch
Ethics and Disciplinary Board at Engineers Ireland
Fellow, The Institution of Engineers or Ireland

Fellow at the Chartered Institute of Arbitrators (CIArb)
Chartered Engineer with Engineers Ireland (EI)
Member and Ireland Country Representative for the Dispute Resolution Board Foundation (DRBF)
Member of the Offshore Wind Task Group, DRBF
Chair of the Dispute Resolution Board at Engineers Ireland
Member of the London Court of International Arbitration (LCIA) Users' Council (European)

Key Skills and Specialisation

- Dispute avoidance and dispute resolution via Dispute Boards (DABs and DAABs)
- Broad based alternative dispute resolution experience having acted extensively as arbitrator, mediator, conciliator, adjudicator and dispute board member for construction and professional services disputes
- Technical and commercial management of the delivery of a range of construction contracts and programmes to include MDB funded projects in Sub Saharan Africa and Asia.
- Practical understanding and experience of the compliance monitoring role of a DAAB under the World Bank Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH) obligations. Delivery of training module on SEA/SH obligations at the DRBF International Conference London, May 2022.
- Very extensive experience in the practical use and application of the FIDIC Gold Book (Design Build Operate) Contracts including the DAB at Design Build Stage and sole member DAB for the Operation Service Period
- Contracts specialist for a range of contract forms particularly FIDIC and NEC.
- Water/Wastewater Treatment plants, pipelines, power infrastructure, heavy civils, underground works, tunnelling, highway construction.
- Dispute avoidance and resolution for Offshore Wind projects.

Dispute Board nominations (Project Type)

- Sole member DAB/DAAB on water and sanitation projects
- Sole member DAB on Public Infrastructure projects (Public Realm)
- Sole member DAB on a Social Housing Bundle
- DAAB member on MDB funded public highway and light rail schemes
- Sole member DAB on power and renewables projects (Wind, Solar pv)

Professional Experience

2011 – present **Independent Adjudicator, Mediator, Arbitrator and Dispute Board Member**

2001 **Nicholas O' Dwyer Ltd. Consulting Engineers, Dublin, Ireland**

Leads a range of multi disciplinary teams in the delivery of major construction projects in waste management, water services, energy, roads and other infrastructure projects on a national and international basis.

Particular expertise in the areas of water and wastewater facilities, mechanical and electrical plant, instrumentation control and automation, power generation and distribution, wind farm planning, construction and operation.

Project Director/Manager for the delivery of in excess of 50 infrastructure projects (mostly water services related) on a Design/Build/Operate (DBO) and Design/Build (DB) model since 2001 using FIDIC Gold and Yellow book forms.

Significant experience of FIDIC Dispute Adjudication Boards (DABs) in relation to FIDIC Gold Design Build Operate projects in Ireland multilateral development bank funded roads, water and energy projects in the Middle East and East Africa using FIDIC Yellow, Red and Silver forms.

Contracts specialist role within the company to include advising on contractual issues and managing the dispute resolution function including risk assessments, conciliation and arbitration proceedings. Management of the preparation of claims documentation and responses and coordination of inputs and experts for formal hearings.

1994 – 2001: Patrick J. Tobin & Co. Ltd. Consulting Engineers, Ireland

Duties: Design/Project Engineer for a range of infrastructure development schemes.

1993 - 1994 Pat Mulcair Civil Engineering, Ireland

Duties: Site Engineer on a range of highways projects.

Contracts and Procurement Training

Date	Days	Training
27-29 November 2023 29-30 November 2022 1-2 December 2021 3-4 December 2019 4-5 December 2018 5-6 December 2017 6-7 December 2016 1-2 December 2015	17	FIDIC International Contract Users Conference, Seminar and Workshops, London and online
March 2022	4	ECV training – Management and Resolution of Disputes under the 2017 FIDIC Contracts
March 2021	4	ECV training – The practical application of the 2017 FIDIC Contracts

Sample selection of appointments as Arbitrator

Parties	Appointment	Sole Arbitrator or Tribunal	Project Type	Award status
BMG v BDL	Nominating body	Sole	Consumer	Final reasoned award issued
ER v AEL	Nominating body	Sole	Consumer	Final reasoned award issued
VL v DML	Nominating body	Sole	Consumer	Settlement reached
LNT v RIFL	Nominating body	Sole	Marine	Final Award save as to costs

Sample selection of appointments as Adjudicator

Parties	Appointment	Sole or Tribunal	Project type	Award status
DHC v	Nominating	Sole	Water and	Adjudicator's decision issued (Day 42)

DLRD	body		Sanitation	
BML v	Nominating			
VH	body	Sole	Housing	Adjudicator's decision issued (Day 28)
AEL v	Nominating			
JSL	body	Sole	Educational	Adjudicator's decision issued (Day 47)
MPC v	Nominating		On shore	
HML	body	Sole	wind	Adjudicator's decision issued (Day 38)
NL v				
CRG	Agreement	Sole	Bridge	Adjudicator's decision issued (Day 38)
CG v	Nominating			
BCL	body	Sole	Tunnelling	Adjudicator's decision issued (Day 41)
GCL v				
THM	Agreement	Sole	Pipelines	Adjudicator's decision issued (Day 41)
RF v	Nominating			
MDY	body	Sole	Utilities	Adjudicator's decision issued (Day 26)
TE v CC	Agreement	Sole	Utilities	Adjudicator's decision issued (Day 41)

**Sample selection of appointments as
Conciliator and DAB member**

Parties	Appointment	Role	Project Type	Award status
WCL v	Nominating			
DCC	body	Conciliator	Public Realm	Reasoned Recommendation issued
MCL v				
MCC	Agreement	Conciliator	Educational	Settlement achieved
AIL v	Nominating			
WCC	body	Conciliator	Landfill	Settlement achieved
MCB v				
HA	Agreement	Conciliator	Housing	Settlement achieved
KCL v				
NUIM	Agreement	Conciliator	Educational	Reasoned Recommendation issued
PUI v				
CCC	Agreement	Conciliator	Sports	Settlement achieved
BCDL v			Urban	
DCC	Agreement	DAB	Renewal	Ongoing
DMM				
SDCC	Agreement	DAB	Highways	On going
JSS v			Social	
DCC	Agreement	DAB	Housing	On going
WBL v				
KCC	Agreement	DAB	Renewables	On going
JSSL v				
DCC	Agreement	DAB	Water	On going

Countries of Work Experience

Ireland, United Kingdom, Turkey, Croatia, Saudi Arabia, UAE, Jordan, Bahrain, Ethiopia, Malawi, Tanzania, Zambia, Lesotho, Uganda, Mozambique, Egypt, Vietnam, Timor Leste, India

Malith S. Mendis

BEng (Hons), MSc(Eng) (UK) , FICE, FIESL, MCIArb, CEng
Tel: +94 777 720 555, +65 8430 6724

FIDIC President's List Adjudicator

FIDIC Certified Trainer/ Lecturer

Reviewer – FIDIC 2017 Conditions of Contracts

Examiner for FIDIC Certified Trainer Assessments

Country Representative Sri Lanka – Dispute Resolution Board Foundation (DRBF)

Chairman South Asia and Country Representative Sri Lanka – Institution of Civil Engineers UK (ICE)

Consultant Project Manager & Contract Administrator

Member - Primary Panel of Arbitrators of the Maldives International Arbitration Centre (MIAC)

Member – List of UK Adjudicators

Member - List of Hong Kong Adjudicators

Member – List of Adjudicators – Construction Industry Development Authority (CIDA), Sri Lanka

Member – List of Arbitrators, Adjudicators, and Structural Engineers – Institution of Engineers, Sri Lanka

Member – List of Adjudicators – Association of Consulting Engineers, Sri Lanka

Member – Chartered Institute of Arbitrators UK

Fellow - Institution of Engineers, Sri Lanka

Fellow - Institution of Civil Engineers, UK

Member - Dispute Resolution Board Foundation

Member – Society of Construction Law, UK

Fellow – Institute of Project Managers, Sri Lanka

Member - Society of Structural Engineers, Sri Lanka

Member - Association of Consulting Engineers, Sri Lanka

Trained and wide knowledge of Construction Law and International Arbitration.

Contracts Training Workshops conducted as Lecturer in Sri Lanka, India, Maldives, Timor Leste, Brunei, Fiji, Seychelles, Samoa, Solomon Islands, Nepal, Myanmar and Uganda.

FIDIC Training Assignments in 2021, 2022 and 2023:

- 1) Training in Module 6 : FIDIC Design, Build and Operate (DBO) Contract Special Module for PMID, MCA and MCL of Punjab Bulk Water Supply Projects (World Bank Projects), India**
- 2) Training in Claims Management under FIDIC Contracts for Fenaka Corporation, Maldives**
- 3) Training in FIDIC Module 1 for Sri Lanka (MCSL members) and Maldives (CTL Strategies)**
- 4) Training in FIDIC Module 1 for Fiji (H L K Jacob and Hotsprings) and Maldives (Riyan Pvt Ltd)**
- 5) Training in FIDIC Module 1 for MWSC, MACL and MTCC Maldives**
- 6) Training in FIDIC Module 4 for Uganda Association of Consulting Engineers**
- 7) Training in FIDIC Module 1 and 2 in Fiji Islands**
- 8) Training in FIDIC Module 1 and 2 for State Electricity Company (STELCO), Maldives**
- 9) Training in FIDIC Module 1 and 2 for John Keells Holdings, Sri Lanka**
- 10) Training in FIDIC Module 1 with WB Conditions, World Bank Office, Nepal**

2010 to Present Arbitrator, Adjudicator, FIDIC Trainer, Claims Consultant, Contract Manager
2003 to 2010 Lanka Hydraulic Institute Ltd
2001 to 2003 Holcim (Lanka) Ltd (formerly Puttalam Cement Ltd)
1997 to 2000 Lankem Developments Ltd
1991 to 1997 Union Construction Engineering Ltd
1987 – 1990 Central Engineering Consultancy Bureau
1987- 1987 Selvaratnam & Perera, Chartered Architects & Engineers
1985-1987 Union Construction Engineering Ltd

Projects: Experience in Design, Project Management and Contract Administration

Colombo South Harbour- Sri Lanka, Rantembe Hydropower project – Sri Lanka, Accident Emergency & Orthopaedic Trauma Unit, National Hospital – Sri Lanka, Riviere des Galet Coastal Protection Project – Mauritius, Pharmaceuticals Manufacture Plant for Navesta – Sri Lanka, Al Marjan offshore development, Ras Al Kaimah, UAE, Song Do Beach Restoration – South Korea, Busan harbour extension– South Korea, Ten islands drainage project – Maldives, Krishnapatnam harbour – India, Haldia harbor, Kolkata – India, Al Lakbi harbour – Oman, Hambantota harbour – Sri Lanka, Incheon Harbour LNG Terminal – South Korea, Galle harbour development – Sri Lanka, USAID Tsunami Fishery harbours Reconstruction Project – Sri Lanka, Massawa harbour Oil Jetty project – Eritrea, Galle harbour – Sri Lanka, Kukule Hydropower dam – Sri Lanka, Sapugaskanda Refinery – Sri Lanka, , Maldives Tennis Association – Maldives, Bank of Maldives – Maldives, El Kala harbour – Algeria, Club palm Bay Hotel – Sri Lanka, York Arcade Building – Sri Lanka, Office Building for CIC – Sri Lanka, Shopping Complex for Swarnamahal – Sri Lanka, Manufacturing Plant for Diamond Cutters Ltd, Provincial Drug Stores, Southern Province – Sri Lanka , Bishops College Auditorium – Sri Lanka, Khyber Paktukhwa Hydro Power Project – Pakistan.

Member of Dispute Boards/ Adjudications and Arbitrations (Past & Present)

- Greater Colombo Water Rehabilitation Project (Member)
- Supplying and Laying of Pipelines and Civil Construction Work, Towns North of Colombo Water Supply Project (Chairman)
- Urban Regeneration Project - Construction of 1777 Housing Units at Colombage Mawatha – City of Colombo (Chairman)
- Ampara Distribution Network Water Supply Project (Chairman)
- Road Sector Development Project – Provincial Road Component – Western Province (Member)
- Central Expressway Section 2 (2 Packages – Chairman)
- Construction of Office Building for District Secretariat Puttalam (Chairman)
- Improvement and Rehabilitation of Kandy Jaffna Road (Chairman)
- Improvement and Rehabilitation of Priority Roads – Galle – Udugama Road (Chairman)
- Construction of CEB Corporate Office Building of Distribution Division – 04 (Chairman)
- Southern Transport Development Project Package KG.5 – (Chairman)
- Improvement and Rehabilitation to B435 – Orugodawatte – Ambatale Road (Chairman)
- Towns East Of Colombo District Water Supply Project - Package 03 – (Member)
- Design and Construction of 480 housing units at Applewatta – URP – (Counsel / Consultant)
- Greater Colombo Waste Water Management Project – (Counsel / Consultant)
- Design and Construction of Housing Units at Henamulla – URP - (Counsel / Consultant)
- Integrated Road Investment Programme – Uva Province – 6 Packages – (Sole Member – Chairman)
- Development and Construction of District General Hospital, Nuwara Eliya – (Chairman)
- National Transmission and Distribution Network Development and Efficiency Improvement Project - Package 1 - Construction of 400kV, 220kV and 132kV Transmission Lines (JICA funded) – (Chairman / Sole Adjudicator)
- Development of Housing Units in Hulhumalé, Republic of Maldives (Phase III – Part 1 & 2 and associated Works) – (Chairman)
-

1982- 1984	University of Liverpool, UK – <i>Master of Science (Engineering) - MSc(Eng)</i>
1979- 1982	University of Liverpool, UK – <i>Bachelor of Engineering (Civil Engineering)–BEng(Honours)</i>
1965-1979	Royal College, Colombo & Ruam Rudee International School, Bangkok

Member, Adjudication committee, CIDA
President, Association of Consulting Engineers, Sri Lanka
Member, Capacity Building Committee , FIDIC
Faculty member / Lecturer at the Institute for the Development of Commercial Law and Practice (ICLP)
Head, Engineering and Modelling group of the Expert group of Govt of Sri Lanka,
Sethusamudram Canal Project for talks with Govt. of India
Member, Advisory panel, Export of Professional Services, Export Development Board
Chairman, Review of Specification for Coastal & Harbour Works, ICTAD
Secretary, Sri Lanka Association of the Institution of Civil Engineers
President, Central Engineering Consultancy Bureau Engineers Association

M. Mendis et. Al., The proceedings of the International Conference on Marine Problems and Specific Solutions, COMPASS 2008

Sri Lanka Country Paper – TCDPAP & FIDIC ASPAC Conference, Nepal, 2009

Paper on “Hydraulic stability of tetrapod toe apron on coreloc armour breakwater: A 2D Physical model study”, M. Mendis et.al., The proceedings of the International Conference in Ocean Engineering (ICOE 2009)

Sri Lanka Country Paper – TCDPAP & FIDIC ASPAC Conference, Malaysia, 2011

Public Lecture on “Export of Technological Services”, IESL, Colombo, 2010

Lecture on “Projects in Sri Lanka”, Rotary Club of Battaramulla, Sri Lanka, 2011

Paper on “Coastal Vulnerability Assessment” – TCDPAP & FIDIC ASPAC Conference, Bangkok, Thailand, 2013

Paper on “Preparing Consultancy Firms For Export Of Services And International Collaboration” – TCDPAP & FIDIC/ASPAC Conference, Bali, Indonesia - 2014

Paper on “Colombo South Harbour Project – A Case Study” – FIDIC Contract Users Conference, Shenzhen, China – 2014

“Dispute Boards and their dispute avoidance role”, Dr. A N S Kulasinghe Memorial Lecture, Institution of Engineers Sri Lanka – 2015

“Opportunities and Benefits to China, Sri Lanka and South Asia: One Belt, One Road Initiative”, International Consulting Engineers’ Forum 2015, China Association of Plant Engineering Consultants, Beijing, China – 2015

“Dispute Adjudication Boards - What is happening in South Asia ?” Dispute Resolution Board Foundation International Conference, Bali, Indonesia – 2017

“DABs Role Under FIDIC Conditions - Current Practice and The New Rules – What is happening in Asia?” FIDIC Asia Pacific Contract Users Conference, Vietnam - 2017

“Elevating DBs in Asia: Legislative and Funding Agency Developments – South Asia with focus on India, Sri Lanka, Nepal”, DRBF 18th Annual International Conference, Tokyo – 2018

“Dispute Avoidance under FIDIC Contracts”, Dispute Resolution Board Foundation International Conference, Yogyakarta, Indonesia – 2018

“International Application of FIDIC Contracts Sri Lanka Chapter” – Co Author, Taylor & Francis Group 2019

“FIDIC 2017 Contracts – Changes from 1999” – Barton Legal Seminar - 2020

“Arbitration and ADR – focus on South Asia - India, Sri Lanka and Nepal” – FIDIC Asia Pacific Contract Users’ Conference – 2020

“FIDIC Contracts in Asia Pacific” – Sri Lanka Chapter – Co Author, Routledge – 2021

“Fundamental Features of Engineering Contracts and Dispute Resolution in Engineering Contracts” – Webinar presentations for South Asia Early Careers Net of the Institution of Civil Engineers - 2023

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