



Government of Jammu & Kashmir
Project Management Unit
Jhelum & Tawi Flood Recovery Project (JTFRP)
JKERA Commercial Complex Rambagh Srinagar.



No:JTFRP/PMU/Camp/777/326

Date:28-11-2019

Sub: Corrigendum No. 03 to tender No REVISED/ROADS/JAMMU/02 (Upgradation of Chiralla Link Road and Malaini-Chakrabatti Road.)

The below referenced Clauses in the Bid Document have been modified and the revised text shall replace the Original text in the Bid Document. The Compliance requirements for these clauses shall, however, remain the same as previously mentioned in the Bid Document.

Reference in Bid Document	Original Clause	Revised Clause
Section III - Evaluation and Qualification Criteria Clause 2.3.2 – Annual Construction Turnover	Achieved in at least two financial years (in the last five years) a minimum annual financial turnover in civil engineering construction work of INR 55 Crores [Fifty Five Crore Rupees] calculated as total certified payments received for contracts in progress or completed,	Achieved in at least two financial years (in the last Seven years) a minimum annual financial turnover in civil engineering construction work of INR 55 Crores [Fifty Five Crore Rupees] calculated as total certified payments received for contracts in progress or completed,
Section III - Evaluation and Qualification Criteria 2.4.1 General Experience	Experience under construction contracts for similar works such as those pertaining to CONSTRUCTION OF ROADS / BRIDGES in the role of contractor, JV member, subcontractor, or management contractor for at least the last five [5] years prior to the bid submission deadline.	Experience under construction contracts for similar works such as those pertaining to CONSTRUCTION OF ROADS in the role of contractor, JV member, subcontractor, or management contractor for at least the last Seven [7] years prior to the bid submission deadline.
Section III - Evaluation and Qualification Criteria 2.4.2 (a) Specific Construction Experience	Bidder should have successfully completed as a prime contractor, JV member, management contractor or sub-contractor, minimum One (1) civil contract substantially completed within the last five (5) years (FY2014-2015.to FY 2018-19), with a value ¹ of at least INR 28 Crores involving Construction, Upgradation of Roads preferably Flexible Pavement.	Bidder should have successfully completed as a prime contractor, JV member, management contractor or sub-contractor, minimum One (1) civil contract substantially completed within the last Seven (7) years (FY2013-2014.to FY 2019-20) , with a value of at least INR 28 Crores involving Construction, Upgradation of Roads preferably (Flexible Pavement).
Section IV - Bidding Forms, Bill Of Quantities(BOQ), Bill no-7 Protection Work Clause 7.3	Providing & Laying Plain Cement Concrete levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg.and MORT&H specifications sections1500, 1700 and 2100."	"Providing & Laying Plain Cement Concrete (M-15) levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100."

The BoQ is modified and the revised BoQ is attached as **Annexure A**.

Sd/-
DirectorTechnical
JTFRP

Annexure A

Bill Of Quantities(BOQ)

Bill no:-1 :Dismantling						
<i>Sl. No</i>	<i>Description</i>	<i>Unit</i>	<i>Total</i>	<i>Rate in Word</i>	<i>Rate in figure</i>	<i>Amount</i>
1.1	Clearing jungle including uprooting of rank vegetation,grass, brushwood, trees and saplings of girth upto 30cm measured at height of 1m above ground level and removal of rubbish upto a distance of 50m outside the periphery of the area cleared as per MoRTH clause no 201	Sqm	39391			
1.2	Scarification of flexible pavements upto 50mm and disposal of dismantled materials up to within all lead , stacking serviceable and unserviceable materials separately as per MoRTH clause no 202	Sqm	25650			
Bill no:-2 : Earth work						

2.0	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead as per MoRTH clause no 301					
	Ordinary Soil	Cum	44829			
2.1	Removal of unserviceable soil including excavation, loading and disposal upto within all lifts and lead but excluding replacement by suitable soil which shall be paid separately	Cum	25662			
2.2	Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table as per MoRTH clause 305.	Cum	19167			
2.3	Construction of unpaved shoulders with approved material (PI max-6%) obtained from available material approved by the EIC with all lifts & leads , transporting to site, spreading, grading to required slope and compacted to meet requirement of as per MoRTH clause 305					

	Rolling with vibratory roller	Cum	7569			
Bill no:-3 : Pavement Work						
3.1	Construction of subgrade with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of as per MoRTH clause 305	Cum	4048			
3.2	Construction of crushedgranular sub-base Grade-II by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per MoRTH clause 401	Cum	17660			
3.3	Providing, laying, spreading and compacting graded stone aggregate to water bound macadam (For layer II- Gr III and for layer I-Gr -II)specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the	Cum	21470			

	desired density.as per MoRTH clause 404					
3.4	Providing and applying Prime coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying Prime at the rate of 0.7 kg/sqm using mechanical means as per MoRTH clause 502	Sqm	88419			
3.5	Providing and applying tack coat with bitumen emulsion complying with IS-8887-1995 spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per spec over W.B.M @ 0.4Kg/sqm	Sqm	176837			
3.6	Providing and laying seal coat of premixed fine aggregate(passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade 80/100 bitumen ' .per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface including rolling and finishing with road all complete	Sqm	88419			

3.7	<p>Providing and laying 2.5 cm premix carpet surfacing with with 2.25cu.m. and 1.12 cu.m of stone chippings of 13.2 mm and 11.2 size respectively per 100 sq.m. and 52kg. and 56 kg. of hot bitumen per cu.m. of stone chippings of 13.2 mm and 11.2 mm size respectively including a tack coat with hot straight run bitumen including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately)</p>	Sqm	88419			
3.8	<p>Providing and laying Bituminous Macadam on prepared surface with specified graded crushed stone aggregate for profile corrective base/binder course including loading of aggregate with F. E. loader, hot mixing of stone aggregates in hot mix plant, transporting the mixed material by tippers to paver and laying the mixed material with paver finisher fitted with electronic sensing device to the required level and grade and rolling with road rollers, as per MORTH specification to achieve the desired density and compaction but excluding the cost of primer/tack coat.</p>	Cum	4421			

Bill no: -4: Culvert						
4.1	Earthwork in excavation of foundation for structures including pipe culverts in all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	Cum	3432			
4.2	Back filling behind abutments, wing walls and return walls with selected granular material of approved quality with all leads and lifts complete as per drg. and MORT&H specifications clauses 305 & 2907.	Cum	140			
4.3	Filter media behind abutments, wing walls, & return walls, including all material, labour, equipment carriage etc. all complete as per drawing and Technical Specification Clauses 305, 309 & 2504.	Cum	119			
4.4	Providing & Laying Plain Cement Concrete levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.					
	M-15 grade	Cum	125			
4.5	Providing & Laying Reinforced Cement Concrete in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications					

	sections 1500, 1700 and 2100.					
	M-25 grade	Cum	283			
4.6	Cement Concrete / Reinforced Cement Concrete in sub-structure including form work but excluding reinforcement complete as per drg. and MORT&H specifications sections 1500, 1700 and 2200.					
	M-25 grade	Cum	297			
4.7	Reinforced Cement Concrete in super-structure including centring and shuttering but excluding reinforcement complete as per drg. and MORT&H specifications sections 1500, 1700 and 2300.					
	M-25 grade	Cum	71			
4.8	Supplying, fitting & placing in position HYSD / TMT bar reinforcement complete as per drg. and MORT&H specifications sections 1600.					
	Foundation	MT	7			
	Sub-structure	MT	13			
	Superstructure	MT	8			
4.9	Providing & fixing Bitumen impregnated fibre board expansion	M	84			

	<p>joints complete as per drg. and Technical specifications</p>					
4.10	<p>Providing weep holes in brick masonry / plain / reinforced concrete abutment, wing walls / return wall with 100mm dia AC pipe, extending through the full width of structure with slope of IV:20H towards draining face complete as per drg. and MORT&H specifications clause 2706.</p>	Nr.	196			
4.11	<p>Providing, laying & jointing RCC NP4 pipe including testing complete as per drg. & MORT&H specifications section 2900.</p>					
	<p>1200mm dia</p>	M	205			
4.12	<p>Rigid apron 150mm thick flat stone embedded in 300mm thick M-15 grade concrete as per drawing and technical specification Clause 2505.</p>	Cum	993			
4.13	<p>Providing & laying stone boulder apron complete as per drg. & MORT&H specifications section 2500.</p>	Cum	890			
4.14	<p>Providing & laying filter material underneath stone boulder pitching on slopes complete as per drg. and MORT&H specifications section 2500.</p>	Cum	76			
4.15	<p>Providing & laying stone boulder pitching on slopes complete as per drg. and MORT&H specifications</p>	Cum	152			

	section 2500.					
4.16	Providing & laying stone pitching on slopes for pipe culvert complete as per drg	Cum	349			
4.16A	Providing & laying selected granular material for pipe bedding as per drg. and MORT&H specifications section 2900.	Cum	252			
4.17	plain cement concrete M-20 grade for head wall of culvert including centering and shuttering complete as per drawing and technical specification section 1500, 1700, 2100 and 2200.	Cum	961			
4.18	Providing and laying 12 mm thick mastic asphalt wearing course on top of deck slab excluding prime coat with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of 9.5 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 100 deg. C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause 515.)	Sq.m.	188			

4.19	Drainage Spouts complete as per drawing and Technical specification	Nos	11			
4.20	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification	Cum	33			
4.21	Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification	Cum	94			
4.22	Dismantling					
	Plain Cement Concrete	Cum	27			
	Pipe	M	188			
	Brick / Stone Structures	Cum	247			
Bill no: -05:Drain						
5.1	Earthwork in excavation of foundation for structures including all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	Cum	10699			
5.2	Providing & Laying Plain Cement Concrete M-15 levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per	cum	7734			

	drg. and MORT&H specifications sections 1500, 1700 and 2100.					
Bill no:-06:Traffic Signs, Marking and Appurtenances						
6.1	Retro- reflectorised Traffic signs (Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)					
(i)	90 cm equilateral triangle (Give Way)	Each	7			
(ii)	60 cm equilateral triangle	Each	167			
(iii)	90 cm circular(Speed Limit at sharp bend)	Each	192			
(iv)	90cm x 30cm rectangular (Object hazard)	Each	172			
(v)	60 cm x 45 cm rectangular (Place	Each	19			

	identification)					
(vi)	60 cm x 50 cm rectangular Chevron (at sharp bend)	Each	4			
6.2	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorised sign asper IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing)	Sqm	2.2			
6.3	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.)	Sqm	4040			

6.4	Kilometre Stone (Reinforced cement concrete M15 grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)					
	5th kilometre stone (precast)	Each	4			
	Ordinary Kilometer stone (Precast)	Each	20			
	200 mt stone (Precast)	Each	206			
6.5	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings.)	Each	3524			
6.6	Convex Mirror at sharp curved	No	50			
6.7	Parapet wall white painting	Sqm	14822			
6.8	Parapet wall PCC M-15	Cum	2309			
Bill no: -07:Protection work						
7.1	Earthwork in excavation of foundation for structures including pipe culverts in all types of soil	Cum	15883			

	including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.					
7.2	Filter media behind abutments, wing walls, & return walls, including all material, labour, equipment carriage etc. all complete as per drawing and Technical Specification Clauses 305, 309 & 2504.	Cum	7606			
7.3	Providing & Laying Plain Cement Concrete levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	Cum	17187			
7.4	Providing weep holes in Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical specifications	Nos	6926			
Bill no: -08: Environment and Social Management Plan.						

8.1	<p>SITE SAFETY MEASURES: Barricading as Per IRC SP-55. Rate shall be inclusive of cost of providing all materials and fixing arrangements, including excavation, transportation to site, fixing, backfilling, removal of the complete barricading after construction work is over and rehabilitation of the site etc., with all incidental charges, leads, lifts and all taxes and duties as applicable and as specified by Engineer-in-charge. Material of barricading shall be the property of contractor after completion the work. Barricading shall be maintained throughout the construction period. It should be installed in a manner so that one cannot crawl underneath it, should be sturdy enough to bear normal wear and tear at the construction site, should not topple off and hurt someone and should be strong enough to withstand the elements, including high wind conditions.</p>	Rmts	500			
8.2	<p>Provision, installation and maintenance of cautionary/warning signage, including diversion boards as per IRC specifications (SP:55, 2014) on the main road and along the access, including cost of boards and other materials required for fixing, with all incidental charges leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge</p>	No	2			

8.3	Cost towards first aid and emergency response arrangements in the camp and worksite (including fire and electrical safety provisions)	Job	1			
8.4	Cost towards periodic health check-ups once in three months for all construction workers	Job	1			
8.5	Wet type portable toilet (MS fabricated) 2 seats (1 for men and 1 for women with separate entrances), fitted with 2000 liters capacity overhead tank and 500 liters capacity bottom tank, fitted with Indian type of pot with other facilities such as tap, lighting and ventilation; and sludge tank of capacity 1000L, and stationed at a suitable place in or around 50 meters from work front. Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.	No	2			
8.6	Dry type portable toilet (MS fabricated) (bio digester) of approved design with 2 seats (one for men and one for women). Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and	No	2			

	operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.					
8.7	Providing of mobile drinking water counter/kiosk, fabricated from stainless steel with 300 liters capacity, with two taps and with bottom tank (300 litre holding capacity) to collect waste water and stationed at a suitable place within operational area, with one common attendant for both mobile toilet and drinking water kiosk. Cost includes charges for emptying bottom tank through suction machine, shifting cost of the kiosk from one operational area to another area, attendant cost for looking after cleaning and operation, all materials and all labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge	No	2			
8.8	OTHER ENVIRONMENT, HEALTH AND SAFETY MEASURES: Information dissemination about type and schedule of civil works, utility shifting/damage/emergency repairs, complaint handling and all such issues that affect public/near-by residents Road users close to the work zone. Dissemination modes to include display of banners/notices, distribution of	Months	9			

	handbills, organization of meetings and other appropriate means at least once in a month for the entire project duration.					
8.9	Provision of Project Information Board in sheet steel and all supports, including fixing and maintenance during the entire project. Minimum board size should be 3 meters x 2 meters, with necessary information in English and local language written in black paint with white back ground. The board details and the required information will be furnished by the Engineer. The complete design, including logo and information to be displayed shall be approved by the Engineer	no	2			
8.10	Cost of environmental monitoring (air, water and noise) during entire construction period . Ambient Air quality, Ambient Noise level and water quality monitoring. (24 Hourly Ambient Air Quality Monitoring for PM2.5 PM10,SO2, Nox and CO)-Noise Levels (dB) for Day and Night, Water Monitoring- . AAQ- Once before start of work and thereafter once in every quarter, AAN- Once before start of work and thereafter once in every month, Water monitoring – once before	Job	1			

	start of work & thereafter after completion of work					
8.11	Providing of red fluorescent with white reflective sleeve traffic cone made of low density polyethylene(LDPE) material with a square base of 390x390x35mm and a height of 770mm, 4Kg in weight, placed at 1.5m interval, all as per BS 873 including cost of all materials, labour, loading, unloading, lead, lift, transporting etc complete Technical Specification section & IRC SP 55-2001.	No	20			
	Total Bid Cost in Figures (INR) A					
	Total Bid Cost in Words (INR)					
	Provisional Sum (B)					10000000/-
	Total Cost including provisional sum (A+B)					