



INFRASTRUCTURE ROYALTY CREDIT PROGRAM

GUIDANCE DOCUMENT

REQUEST FOR APPLICATIONS PROCESS

Ministry of Natural Gas Development Upstream Development Division Policy and Royalty Branch

> February 23, 2016 Version 1.0

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1. Purpose of this Document

This document is intended to provide guidance on the Infrastructure Royalty Credit (IRC) Program and the Request for Applications (RFA) process for oil and gas producer and pipeline companies interested in submitting an application(s) to the RFA.

This document provides a general overview of the IRC Program as well as more detailed information relevant to potential applicants, including:

- An overview of the IRC Program and how to apply for infrastructure Royalty deductions, what constitutes an eligible project; how the credits for approved projects are released and deducted from oil and gas royalty payments due to the Province of British Columbia (the Province);
- Tips on determining if the project is suitable for the IRC Program; if the maximum 50% Royalty deduction is needed and other important tips to help applicants to be successful in the competitive RFA process;
- An example of a completed infrastructure RFA Template and an example of a completed Drilling, Production and Royalty Estimates Table to assist applicants in completing the application package.

2. General Overview of the IRC Program

Annual allocation of infrastructure royalty credits

- The Province is enhancing the IRCP with a commitment to a three year allocation of \$120 million per year in royalty deductions for road and/or pipeline projects to support expanded development of BC upstream natural gas resources. The IRCP program will be offered annually from 2016 – 2018.
- The 2016 instalment of the Program has been allocated \$120 million in royalty credits to be competed through a Request for Application (RFA).

Application for infrastructure royalty credits

- The RFA process is very competitive. The amount of Royalty deductions requested by companies for project applications in each of the fourteen previous instalments of the Program has far exceeded the annual allocation of royalty credits.
- An applicant (an oil and gas producer company) may request a level of royalty credits required to make the proposed road or pipeline project economic, which in many cases may be less than 50% of the project costs, this percentage being the maximum Royalty deduction permitted to be granted to any eligible road or pipeline project.

Allocation of infrastructure Royalty deductions to an approved project

- Each project approved under the IRC Program is assigned a maximum amount of Royalty deductions based on the construction cost estimate provided in the road or pipeline project application. This credit can be as much as 50% of the project's estimated cost or final as built cost, whatever is lesser.
- The Royalty deductions are assigned to the approved project, not to a company.
- An approval of a project as a result of the RFA application does not result in Royalty deductions being automatically applied to the producer company's royalty payable account; the release process is described below.

Request for the release of Royalty deductions for approved project

• A producer company must send a written request to the Ministry of Natural Gas Development (Ministry) requesting the release of the Royalty deduction for an eligible project once the project has completed construction, and all associated eligible costs have actually been paid. Schedule B of the Project Agreement lists the required documents that must be completed and submitted as part of the credit release request.

The release of a royalty deduction is also determined by the actual royalty revenues payable attributable to the infrastructure project's natural gas and/or oil wells (amount A), which is then compared to the eligible amount of Royalty deductions to the completed project (or the eligible amount of Royalty deductions to the completed step of the project plus any credits released for a previous step of the project in the same fiscal year) (amount B).

If **amount A** is greater than or equal to **amount B**, the Royalty Administrator will, subject to the Project Agreement and the <u>Petroleum and Natural Gas Royalty and Freehold</u> <u>Production Tax Regulation</u>, allow the royalty deduction.

If **amount A** is less than **amount B**, then the Royalty Administrator has sole discretion to allow a royalty deduction in an amount less than **amount B** or not allow a royalty deduction in that fiscal year.

- Producer companies are advised to keep a MASTER WELL LIST for all of the wells that are attributed to each approved project to ensure unique wells are tagged to a specific approved project. This will enable easy updates for well reporting obligations for completed IRC projects.
- If the Ministry of Natural Gas Development determines that the Royalty deduction is eligible and earned under the Project Agreement, the producer company will be notified, in writing, of the credit release. The Ministry of Finance is also notified by the Ministry that the eligible amount of credit can be deducted from oil and gas royalty payments due to the Province.
- Once a royalty deduction has been approved for release, it is applied to the company's royalty payable to the Province.
- The Royalty deduction is not transferable between related or unrelated companies, persons or other entities.
- A BC-15 Remittance Advice entry form and a BC-22 Application for PCOS form must be completed and submitted to the Ministry of Finance in order to claim all or some portion of the Royalty deduction amount. Depending on the amount of the company's monthly oil and gas royalty payable and market prices for oil, natural gas and natural gas liquids, it may take several months or over a year until the Royalty deduction has been exhausted.

AUDIT REVIEWS

- The Ministry has the discretion to access any IRC Program approved project site to carry out inspections, monitor progress and conduct audit reviews with reasonable notice.
- The audit review may be carried out on any completed Project, or completed Step of a Project under the IRC Program. This is an audit review of the costs paid for the Project, and is normally carried out by an outside accounting firm contracted by the Ministry.
- The Ministry reserves the right to reassess and adjust the Royalty deduction entitlement if it is found that any of the claimed project costs are ineligible, or where unclaimed eligible costs are identified.

3. How to Decide if the Program is Suitable for Your Project

- Please refer to the <u>RFA document</u> Section C for definitions of eligible road, eligible pipeline project, eligible and ineligible costs.
- The IRC Program is designed to:
 - enhance BC's competitiveness for upstream investment.
- The Program is NOT intended to share costs of building infrastructure that has already been built or is under construction.
- Look at your internal proposed project economics particularly your "hurdle rate": if your project is "on the bubble" (close to making it to receive internal approval, but not quite), then the Program might be a good option for you.
- Run your internal economics with and without the infrastructure credit to help decide if you should apply.

The following cases (Case 1 and Case 2) provide scenarios for determining the internal economics in helping determine whether you might consider applying to the Program.

CASE 1 - Project makes hurdl			Road: 3.0 mill	ion			
CASE 1 - Project makes nurur				Drilling: 5.0 m	illion		
Program							
	Road Application			BEFORE		AFTER C	
	Rodd Application			Expenditures	Revenues	Expenditures	Revenues
TOTAL PROJECT			Y1	- 8,000,000	200,000	- 6,500,000	200,000
Eligible construction costs	\$3,000,000		Y2		500,000		500,000
Credit requested	\$1,500,000		Y3		1,000,000		1,000,000
Revenues Expected in first 5 years	\$7,000, 000		Y4		2,000,000		2,000,000
Benefit/Cost Ratio	3.7		Y5		2,800,000		2,800,000
			Y6		3,500,000		3,500,000
	450/	-	Y7		3,000,000		3,000,000
Company "Hurdle Rate" (IRR)	15%		Y8		2,900,000		2,900,000
IRR of project BEFORE Credit	16%		Y9		1,800,000		1,800,000
IRR of project AFTER Credit	21%		Y10		1,400,000		1,400,000
			Y11		1,000,000		1,000,000
In this case, your proposed project does NOT re	quire an infrastructure	Does not need	Y12		800,000		800,000
royalty credit to be economic.		Program	IRR	16%		21%	

Case 2 – Determining Internal Economics

CASE 2 - Project does not make hurd			Road: 3.0 mil	lion			
				Drilling: 6.0 n	nillion		
without Program							
	Road Application			BEFORE	CREDIT	AFTER (REDIT
TOTAL PROJECT				Expenditures	Revenues	Expenditures	Revenues
Eligible construction costs	\$3,000,000		Y1	- 9,000,000	200,000	- 7,500,000	200,00
Credit requested	\$1,500,000		Y2		500,000		500,00
			Y3		1,000,000		1,000,00
Net Royalty Revenues Expected in first 5 years	\$7,000,000		Y4		2,000,000		2,000,00
Benefit/Cost Ratio	3.7		Y5		2,800,000		2,800,00
			Y6		3,500,000		3,500,00
Company "Hurdle Rate" (IRR)	15%	_	Y7		3,000,000		3,000,00
IRR of project BEFORE Credit	14%		Y8		2,900,000		2,900,00
RR of project AFTER Credit	18%		Y9		1,800,000		1,800,00
RK OF Project AFTER Credit	1070	_	Y10		1,400,000		1,400,00
			Y11		1,000,000		1,000,00
In this case, your project is close to being economic w	vithout the credit,	Needs	Y12		800,000		800,00
but doesn't quite make it. The royalty credit makes t	he difference!	Program	IRR	14%		18%	

4. How to Decide if the Maximum 50% Royalty Deduction is Needed

- Oil and gas producer companies can apply under the competitive RFA process for a deduction to the royalties they would otherwise pay to the province in exchange for their investment in new road or pipeline infrastructure.
- This deduction can be as much as 50% of the estimated project cost or the final as built cost, whatever is less.
- Producers can request less than 50% if their project becomes internally economic with less than the maximum credit.
- Why would you do that? Because a lower credit improves your chances of getting your project approved!

The following cases (Case 3 and Case 4) illustrate an example of where you likely would request less than the maximum 50% Royalty deduction in your project application.

CASE 1 - Apply for 50%				Road: 3.0 mill	ion		
	Road Application			Drilling: 6.0 m	illion		
TOTAL PROJECT							
Eligible construction costs	\$3,000,000	Project is		BEFORE	CREDIT	AFTER C	REDIT
	\$0,000,000	economic		Expend	Revenues	Expend	Revenues
Credit requested	\$1,500,000	in both	Y1	- 9,000,000	200,000 -	. 7,500,000	200,000
Net Royalty Revenues Expected in first 5 years	\$7,000,000	cases	Y2		500,000		500,000
Benefit/Cost Ratio	3.7	AFTER the credit	Y3		1,000,000		1,000,000
			Y4		2,000,000		2,000,000
		_	Y5		2,800,000		2,800,000
Company "Hurdle Rate" (IRR)	15%		Y6		3,500,000		3,500,000
RR of project BEFORE Credit	14%		Y7		3,000,000		3,000,000
RR of project AFTER Credit	18%		Y8		2,900,000		2,900,000
			Y9		1,800,000		1,800,000
			Y10		1,400,000		1,400,000
Why take the risk? Project makes hurdle rate with a lower credit as			Y11		1,000,000		1,000,000
vell. And asking for 50% makes project return only 3.7	7:1.0 to the		Y12		800,000		800,000
Province, which means less chance of being approved			IRR	14%	,	18%	·

 \sim

CASE 2 Apply for 25%				Road: 3.0 mill	ion		
CASE 2 - Apply for 25%				Drilling: 6.0 m	illion		
	Road Application						
TOTAL PROJECT				BEFORE	CREDIT	AFTER C	REDIT
Eligible construction costs	\$3,000,000			Expend	Revenues	Expend	Revenues
Credit requested	\$750,000		Y1	- 9,000,000	200,000 -	8,250,000	200,000
•	. ,		Y2		500,000		500,000
Revenues Expected in first 5 years	\$7,000, 000		Y3		1,000,000		1,000,000
	0.0		Y4		2,000,000		2,000,000
Benefit/Cost Ratio	8.3		Y5		2,800,000		2,800,000
		But will rank	Y6		3,500,000		3,500,000
Company "Hurdle Rate" (IRR)	15%	much better	Y7		3,000,000		3,000,000
IRR of project BEFORE Credit	14%	overall if only asking for 25%	Y8		2,900,000		2,900,000
IRR of project AFTER Credit	16%	of the cost	Y9		1,800,000		1,800,000
IKK OF PIOJECI AFTEK CIEUL	10%		Y10		1,400,000		1,400,000
			Y11		1,000,000		1,000,000
With a 25% royalty credit, project makes the hu	rdle rate, and increases		Y12		800,000		800,000
benefit to the Crown considerably - more chance	es to aet approved		IRR	14%		16%	

5. Tips for Completing the RFA Application Package for the IRC Program

The Ministry has issued an RFA for fifteen separate instalments of the Infrastructure Royalty Credit Program from 2004 to 2016. The Ministry has reviewed a large number of applications submitted by the oil and gas industry, and has collected these tips to assist you when completing the package.

The table below highlights some common issues found in previous applications, with suggested solutions. Companies are encouraged to carefully review the 2016 RFA package prior to submission to ensure it is completed fully and correctly.

DOCUMENT	ISSUE
RFA Cover Page	Missing from submission;
(Word document)	 Not fully completed with information about the company or project;
. ,	 Not signed.
Cover Letter(s)	Missing;
about the Project	 Lack of information about the project provided;
	 In a partnership application, only one letter from one partner received;
	Not on company letterhead;
Supporting	Missing;
Letter(s) (if a partner	 No royalty percentage split for Producer partners assigned;
application)	No Letter of Agreement included.
Infrastructure RFA	 Legal company name not provided;
Template	 Partner company name not provided;
(Word document)	 Vague description of project;
	 Number of years not specified for project acceleration;
	 Pipeline applications only includes facilities, not pipeline construction;
	Questions unanswered;
	• Provided in PDF format (must be in Word).

DOCUMENT	ISSUE
Proposed Construction Schedule (Excel spreadsheet)	 Missing from submission; Not fully completed; Format of spreadsheet changed (format must remain unchanged and in Excel)
Drilling, Production and Royalty Estimates Table (excel spreadsheet)	 Missing well information i.e. MDTP, MDCP, TVD, IP Date, East/West; Volumes not submitted in proper units (e³m³; m³ etc.); One type well submitted for multiple wells (each well must be
	 entered as a separate row); Deductions for Royalty deductions not subtracted – infrastructure or deep credits, etc.;
	 Well currently producing (producing wells are not accepted); Wells counted twice (well was assigned to previously approved infrastructure project);
	 If a road and pipeline project is being submitted, then there is an option to submit together or separately, but care should be taken to ensure that there are no duplication of wells;
	 Days on production higher than 365 days (Initial production is on an annual basis);
	 No risk information provided;
	 Format of spreadsheet changed (format must remain unchanged and in Excel)
Mapping	 No polyline provided in shapefiles;
Requirements	 Shapefile format incorrect (see Section E-8 of the RFA document for details)
	 PDF of map missing;
	Printed Map missing;
Flash Drive	Not provided
	Blank

Appendix A. Example of a Completed Infrastructure RFA Template

INFRASTRUCTURE RFA TEMPLATE 2016

PROJECT AND APPLICANT INFORMATION									
Project Name	Example Road								
Legal Company Name(s)	ABC COMPANY LIMITED	ABC COMPANY LIMITED							
Royalty payor code	002	002							
Contact Name	Jo Smith	o Smith Contact Phone 250-555-5555							
Contact e-mail	Contact e-mail j.smith@ABC.com								
PARTNER APPLICANT(S) – P	ARTNER #1								
Legal Company Name(s)									
Royalty payor code									
Contact Name		Contact Phone							
Contact e-mail									
PARTNER APPLICANT(S) - PARTNER APPLICANT(S) - PARTNER	ARTNER #2								
Legal Company Name(s)									
Royalty payor code									
Contact Name		Contact Phone							
Contact e-mail									
Survey Questions									
How did you find out a	about the Infrastructure RFA 20	16? Please check all that apply:							
Daily Oil Bulletin		Past Applicant							
Ministry's Email Notification	• 🗌	Ministry News Release							
Media		Webinar:							
Word of Mouth		Other (specify):							
Please review the Infrastructure RFA 2016 in Section D - Application Instructions for details in completing the RFA Template and submitting an application. All questions in the Infrastructure RFA Template should be answered fully for evaluation purposes. If any questions are not addressed in the Template, the application will not be scored for full marks and may not receive the minimum required percentage for advancement to the next stage of evaluation.									

FOR EVALUATION CRITERIA - PLEASE COMPLETE THIS TEMPLATE FOR THE RFA SUBMISSION									
1. Project Details (double click on box to tick)									
ROAD: OGC Permit Road	Oil and Gas Ro	bad		rest Services Road or Mining Ac ad	cess				
Total amount of Kilometers of Proj	ers of Project <u>19</u>			e					
Road Construction	Upgr	ade	New	New and Upgrade					
OGC Permit Application Applied:	Yes / No		OGC File #		(if applicable)				
PIPELINE:	OGC Authorized		NEB Authorized	d 🗌					
Total amount of Kilometers of Proj	ect		Pipeline diame	ter(s):					
OGC Application Applied: Yes / No			OGC File #		(if applicable)				
NEB Application Applied:	Yes / No		NEB File #		(if applicable)				
Fluid Type: Sour	H ₂ S content		Sweet	Water	Oil				

2. Description of project

2.1 Please provide a **detailed** explanation of the project and a description of the scope of the project, including describing the route and location the project will encompass. Please include any construction phases (i.e. timelines encompassing several years or phases in construction). Advise on construction of any segments of pipelines or roads (i.e. indicate if there are separations between roads or pipelines, network of roads, pipeline diameter changes). Also explain the reasons the Applicant intends to build the project (may use information submitted in Cover Letter). [Space is not limited in any response].

Example answers below – please provide more detail than provided here.

ABC Company Limited is proposing to build a 19 km all season road in the Fort St. John area. The road will exit from km 20 of the Right Road directly west to the z-83-Q/97-J-10 well site. The road construction will begin at y-85-Q/97-J-10 and end at the z-83-Q/97-J-10 well pad site. This new road will enable ABC Company to produce 5 wells from the well pad site.

The project will start construction in July 2016 and is expect to be completed in Oct 2017. Construction will be completed in two phases with the first 10 km being built by October 2016 and the remaining 9 km being completed by October 2017.

ABC Company's intentions for building the Example Road is to

2.2 Please provide details of the drilling and production performance expected (production rates and reservoir plays) for the project in terms of the location area, formation/zone, and or seismic information available. Also include the expected number of wells to be produced over the next five years.

Example answers below – please provide more detail than provided here.

Development of this project application includes one new horizontal well proposed to be drilled in October 2017 and four additional new wells proposed to be drilled in July 2018

Each well will be drilled to a total length of up to 5,000 metres and completing in the Halfway zone. Completion design for the new wells includes individually perforating and fracing 20-26 intervals per wellbore. 2.3 Please provide details on your plans to ensure access to market for oil and gas produced by this project (pipelines, plants, capacity availability, etc.).

Example answers below – please provide more detail than provided here.

Production will flow down the YYY pipeline onto the ZZZ Gas Plant for processing. The processed gas will then flow into XXX Transmission system.

No issues should be anticipated in accessing upstream market.

2.4: Complete the Summary of Project Work and Step(s) on the following page. Select either road or pipeline project as applicable.

PLEASE NOTE: This document will be used to create the Agreement Schedule information for an approved project.

Please describe the project in detail and include the following: kilometers of project, land descriptions (well locations), construction components/segments (phases), construction standards, Royalty deduction request, etc.

Start and Completion Dates: Please provide dates for project start and completion, and construction start and completion.

Note: Project start and completion dates will comprise the timeframe where eligible costs will be incurred for the project. If any costs are incurred before or after these dates they may be deemed an ineligible cost, unless these costs are captured on the new Schedule D – Special Equipment, Inventory or Services contained in the Project Agreement.

Please refer to the Infrastructure RFA Tutorial Documents: Example of a completed Infrastructure RFA Template, to review how to fully complete the Summary of Project Work and Step(s).

The construction estimated costs are based on Section 3. Estimate Project Cost.

Please review this section to determine the eligible cost for construction.

Use of Steps: Steps are to be used for projects which are completed in construction phases which complete over several years. The Ministry suggests the use of Steps be limited.

Summary of Project Work and Step(s) Table <u>ROAD PROJECT</u>

DESCRIPTION OF PROJECT: Please describe the project – Must Include: length of kilometers of project, area description, construction components/segments (phases), construction standards, etc. and location, timing and number of new wells to be drilled and produced as a result of the project.

ABC Company is proposing to build 19 km of an all season, all weather road from km 20 of the Right Road directly west to the z-83-Q/97-J-10 well site. The road construction will start at y-85-Q/97-J-10 and end at the z-83-Q/97-J-10 well pad site.

The project will start construction in July 2016 and is expect to be completed in Oct 2016. Construction will be completed in two phases with the first 10 km being built by October 2016 and the remaining 9 km being completed by October 2017.

This new road will enable ABC Company to produce the 5 wells from this well pad site, including one new horizontal well proposed to be drilled in October 2016 and four additional new wells proposed to be drilled in July 2017.

- 01/01/2010		Project Completion Date (whole project) (mm/dd/yyyy)	10/01/2017	
Construction Start date (whole project) (mm/dd/yyyy)	07/01/2016	Construction Completion Date (whole project)(mm/dd/yyyy)	10/01/2017	

Construction Start date for Step 1 (mm/dd/yyyy)	07/01/2016		Construction Completion Date for Step 1 (mm/dd/yyyy)		<u>10/0</u>	<u>1/2016</u>	
Project Step 1: Components		•	Expected Completion Estimated Com Date (mm/dd/yyyy) Cost		letion	Maximum Royalty Deduction	
Planning (surveying, applications a	and design)	02/01/2	2016	\$ 300,000			
<i>Construction</i> (clearing of right of way , installing culverts, road and/or bridge construction)		07/01/2016		\$ 1,500,000		DO NOT use this space	
Graveling (sub-grade and running surface)		09/01/2016		\$ 1,000,000			
Clean Up		10/01/2	01/2016 \$ 50,000				
TOTAL		DO NOT us	se this space	\$ 2,850,000		\$ 1,425,000	

Construction Start date for Step 2 (mm/dd/yyyy)	07/01/2017		Construction Completion Date for Step 2 (mm/dd/yyyy)		<u>10/0</u>	1/2017	
Project Step 2: Components		Expected Completion Date (mm/dd/yyyy)		Estimated Completion Cost		Maximum Royalty Deduction	
Planning (surveying, applications and design)		02/01/2017		\$ 300,000			
Construction (clearing of right of way , installing culverts, road and/or bridge construction)		07/01/2017		\$ 1,000,000		DO NOT use this	
Graveling (sub-grade and runni	ng surface)	09/01/2017		\$ 800,000		space	
Clean Up		10/01/2017		\$ 40,000			
TOTAL		DO NOT use this space		\$ 2,140,000		\$ 1,070,000	
GRAND TOTAL FOR	ALL STEPS	DO NOT use	this space	\$ 4,990,0	00	\$ 2,495,000	

Summary of Project Work and Step(s) Table <u>PIPELINE PROJECT</u>

OVERALL DESCRIPTION OF PROJECT: Please describe the project – Must Include: length of kilometers of project, area description, pipeline start and end locations, construction components/segments (phases), and location, timing and number of new wells to be drilled and produced as a result of the project.

Project Start date (whole project) (mm/dd/yyyy)	Project Completion Date (whole project) (mm/dd/yyyy)	
Construction Start date (whole project) (mm/dd/yyyy)	Construction Completion Date (whole project)(mm/dd/yyyy)	

PROJECT STEP 1: - Desc	ription of Proje	ct Step 1	:		
Pipeline Standards for Project Step	o 1:				
Construction Start date			Construction	Completion Date	
for Step 1 (mm/dd/yyyy)		_	for Step 1 (mr	m/dd/yyyy)	
Project-Step 1: Components an	d Segments	-	Completion	ESTIMATED COMPLETIO	Maximum Royalty
	J.	Date (m	m/dd/yyyy)	Costs	Deduction
Design (planning, applications and	surveying)			\$	
Construction (clearing, ditching, str etc.) (OGC/NEB documentation, e.					
Construction Start)	g. Notice of				
Segment #1 – Descriptio	on of location				
Segment #2 – Description	on of location			\$	DO NOT use this space
Construction (compressor station, facility)	gas dehydrator, or				
Testing (hydro or pneumatic)	documentation (ć	-
Pipeline Commissioning (OGC/ <u>NEE</u> Notice of Leave to Open)				\$	
Clean up				\$	
TOTAL		DO NOT us	se this space	\$	\$

Use the following if the project is constructed over several years.

PROJECT STEP 2: Desci	ription of Projec	ct Step 2:			
	•				
Pipeline Standards for Project Step	o 2:				
Construction Start date			Construction	Completion Date	
for Step 2 (mm/dd/yyyy)			for Step 2 (mi		
Project-Step 2: Components an	Step 2: Components and Segments		Completion nm/dd/yyyy)	ESTIMATED COMPLETIO Costs	Maximum Royalty Deduction
Design (planning, applications and	surveying)			\$	
Construction (clearing, ditching, str etc.) (OGC/NEB documentation, e.; Construction Start)	0 0 0				
Segment #1 – Descripti	on of location				
Segment #2 – Descripti	on of location			\$	DO NOT use this space
Construction (compressor station, facility)	gas dehydrator, or				Spuce
Testing (hydro or pneumatic) Pipeline Commissioning (OGC/ <u>NEB</u> documentation / Notice of Leave to Open)				\$	
Clean up				\$	
TOTAL		DO NOT us	se this space	\$	\$
				~	
GRAND TOTAL FOR	ALLSIEPS	DO NOT u	se this space	\$	\$

2.4 Road Projects: Please complete the ROAD LAYOUT AND DESIGN TABLE below.

This information will be used for the Project Agreement Documentation.

	Road Layout and Design Table							
Project	Name:	Example Road	ABC COMPANY					
		I		Design Information				
1.	Road T	ype: (Oil and Gas Road, Forest Services F	Road or Mining Access Road)	Oil and Gas Road				
2.	ROAD	Length (Km)		19				
3.	Road L	ocation – Start (NTS / TWP)		y-85-Q/97-J-10				
4.	Road L	ocation – Finish (NTS / TWP)		z-83-Q/97-J-10				
5.	Road V	Vidth: (M)		8				
6.	Road B	ase Depth: (M)		2.0				
7.	Depth	Of Gravel: (mm)		100				
8.	Right C	Df Way Width: (M)		30				
9.	Road S	ubgrade Width: (M)		5				
10.	Numbe	er Of Pullouts:		23				
11.	Distand	ce Between Pullouts: (M)		2000				
12.	Minim	um Fill Depth: (M)		2.0				
13.	Maxim	um Grade: (%)		5%				
14.	Minim	um Side Slope: (Ratio)		3.1				
15.	Numbe	er Of Bridges: (if applicable)		2				
16.	Bridge	Design Load: (T)		8000				
17.	Minim	um Cross-Drain Culvert Size: (mr	n)	800				

2.5 Pipeline Projects:

Provide Oil and Gas Commission - "Notice to Construction Start Application" (if available at time of RFA)

OR

National Energy Board - Pipeline Application (if available at time of RFA)

These applications will be inserted into the Agreement Documentation.

3. Estimated Project Cost and Royalty Deduction Allocation

Please include an itemized cost estimate breakdown for the proposed project, including all design, construction, engineering, financing, approvals, materials and installation, and any other applicable costs; examples of the level of detail required for road or pipeline projects are provided on the following pages.

The Ministry does not accept contingency, applicable federal taxes, administration and overhead costs as part of the cost estimates. Please refer to the Infrastructure RFA– 2016 document, Section C "Additional Definitions – 6. Eligible Project Costs" for further clarification of construction costs.

PLEASE NOTE: the Amount of Royalty Deduction Requested below will be used to determine the amount of royalty deduction the Ministry will use in evaluating the project, and if successful, that amount would be allocated to the project. You must indicate in the application the <u>amount of royalty deduction requested</u>.

3.1	Estimated Cost Amount to Build Project	\$ 4,990,000
3.2	Amount of Royalty Deduction Requested:	\$ 2,495,000
3.3	Provide the Percentage of Royalty Deduction Requested if less than 50%	%
3.4.1	Producer Company #1 - % split of Royalty Deduction Requested:	%
3.4.2	Producer Company #2 - % split of Royalty Deduction Requested:	%
3.5	Provide a Cost Estimate Breakdown Table (road or pipeline) with possible. (see examples on the following pages).	n as much detail as
	Please provide this in a separate excel spreadsheet – see exampmore information.	oles on pages 10-11 for

Step 1

DESCRIPTION	AMOUNT	UNIT PRICE	TOTAL
Trucking Construction Equipment	100 Hrs	\$ / Hr	\$100,000
Road Construction -Pre-build	280 meters	\$ m	\$300,000
Road Construction Upgrade	320 meters	\$ / M	\$
Road Construction New	800 meters	\$	\$450,000
Blasting required - m of access	80 M ³	\$ / M³	\$
Gravel access (supply, deliver, and spread)	34 M ³	\$ / M³	\$1,000,000
Miscellaneous Materials	1	\$	\$50,000
Geo-Fabric	40 Rolls	\$ Roll	\$100,000
Silt Fence	20	\$	\$50,000
Signs	40 Unit	\$ / Unit	\$5,000
Culverts- 1200 mm	10 m	\$ m	\$50,000
Culverts- 600 mm	500 m	\$ m	\$10,000
Culvert Delivery	3	\$	\$50,000
Culvert Markers	100	\$	\$10,000
Rip Rap	40 culverts	\$ culvert	\$40,000
Medic	100 days	\$ day	\$10,000
Supervision	100 days	\$ day	\$50,000
Camp Site Construction	1	\$	\$100,000
Camp Set up	1	\$	\$100,000
Camp	100 days	\$ day	\$375,000

Total \$2,850,000

Bridge Construction Segment

Bridge Purchase & Install- 60 '	2 Unit	\$ / Unit	\$
			\$
		То	tal \$

Step 2

COST ESTIMATE BREAKDOWN (EX	AMPLE FOR ROAD F	PROJECT)	
DESCRIPTION	AMOUNT	UNIT PRICE	TOTAL
Trucking Construction Equipment	100 Hrs	\$ / Hr	\$75,000
Road Construction -Pre-build	280 meters	\$ m	\$300,000
Road Construction Upgrade	320 meters	\$ / M	\$
Road Construction New	800 meters	\$	\$315,000
Blasting required - m of access	80 M ³	\$ / M³	\$
Gravel access (supply, deliver, and spread)	34 M ³	\$ / M³	\$800,000
Miscellaneous Materials	1	\$	\$25,000
Geo-Fabric	40 Rolls	\$ Roll	\$50,000
Silt Fence	20	\$	\$30,000
Signs	40 Unit	\$ / Unit	\$5,000
Culverts- 1200 mm	10 m	\$ m	\$30,000
Culverts- 600 mm	500 m	\$ m	\$5,000
Culvert Delivery	3	\$	\$30,000
Culvert Markers	100	\$	\$5,000
Rip Rap	40 culverts	\$ culvert	\$25,000
Medic	100 days	\$ day	\$5,000
Supervision	100 days	\$ day	\$40,000
Camp Site Construction	1	\$	\$50,000
Camp Set up	1	\$	\$50,000
Camp	100 days	\$ day	\$300,000

Total \$2,140,000

Bridge Construction Segment

Bridge Purchase & Install- 60 '	2 Unit	\$ / Unit	\$
			\$
		Total	\$

	Pipeline Cost E	Estimate	•	
	Expenditure Description	Quantity	Unit Price	Total
Materials	Pipe Description			
	External coating			
	Pig Launcher			
	Pig Receiver			
	Pig Launcher/Receiver			
	Weights			
	Risers			
		Sub-to	tal Materials	
Construction	ROW Acquisition			
	ROW Clearing/Salvage			
	ROW Preparation			
	Ditch, Backfill, Cleanup			
	Camp Costs (person days)			
	Hydrostatic Testing			
	P/L Installation			
	Weight Installation			
	Inspection Pigging			
	Creek Crossing - bored			
	Road Crossing - bored			
	Road Crossing - open			
	Cable Crossing			
	Railroad Crossing - bored			
	Pipeline Crossing - bored			
	Directional Drilling (related to bore)			
	Corrosion Evaluation			
			onstruction	
Viscellaneous	Equipment Rentals			
	Fuel			
	Trucking			
	Cortron RU-196 Inhibitor			
	Diesel for batch inhibitor			
	Safety			
	number of hydrovacs			
	days of ambulance			
	Labour			
	Communications			
	Radiography			
	Survey			
	Construction Inspection			
	-			
	Regulatory			
	BC Ministry of Forest ha Cut			
	Engineering			
	Pre-fabricated assemblies			
	Supervision			
	Environmental			
		Mi	scellaneous	
			Total	

COST ESTIMATE BREAKDOWN (EXAMPLE FOR PIPELINE PROJECT)

4. Project Business Case – Please answer the following questions:

4.1 Will the project "open up" areas of British Columbia to petroleum exploration and development through the construction of new/upgraded roads providing all season access or pipeline and related facilities infrastructure, which enables new or expanded oil and gas production from new or oil and gas drilling? Please explain:

Example answers below – please provide more detail than provided here.

The Example Road will open up an area without current all season access. This road will provide access to other oil and gas producers and the forestry industry.

5. Benefits Attributable to the Province

5.1: Explain if, and by how much, the royalty credit would accelerate the construction of the project.

Example answers below – please provide more detail than provided here.

The award of the Infrastructure royalty credit would accelerate the construction of the project by several years.

Please provide the number of years the royalty credit would accelerate the project: _____2 ___ number of year(s)

6. Risks and Significant Issues

6.1: Please identify the project risks and steps that will be taken to control and mitigate them. (e.g., insurance, poor drilling outcomes, changes in corporate focus and capital budgets, scope revision, construction cost increases):

Example answers below – please provide more detail than provided here.

ABC Company Limited has mitigated several risks factors which could account for poor drilling outcomes or increased construction costs. These types of risks are factored into the economics of the project.

6.2: Please Identify any significant issues and how they will be resolved; (e.g., permit requirement, rights-of-way, access rights, First Nations consultations, Trapper issues, etc.):

Example answers below – please provide more detail than provided here.

ABC Company Limited has preliminary reviews of the proposed project with the Oil and Gas Commission (OGC) and will work with them through the application and construction process. We expect to be receiving permits and licenses from the OGC.

Discussions have begun with First Nations and we will provide them with any information to ensure consultations are ongoing.

Appendix B. Example of Completed Drilling, Production and Royalty Estimates Table

		Note: Go	vernment Fisco	al Year is Apri	1 1 - March 3:	1										
	Fiscal Yr:	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
	Oil Price SC/ m ³	\$443.42	\$ 480.85	\$ 512.52	\$ 554.88	\$ 592.61	\$ 627.88	\$ 658.66	\$ 685.96	\$ 700.53	\$ 713.60	\$ 727.05	\$ 741.60	\$ 756.43	\$ 771.56	\$ 786.9
		\$ 42.34	\$ 54.36	\$ 65.25	\$ 74.48	\$ 81.10	\$ 86.92	2 \$ 92.49	\$ 98.00	\$ 102.74	\$ 106.29	\$ 110.37	\$ 124.94	\$ 127.44	\$ 129.99	\$ 132.5
	Gas Price \$C/ e ³ m ³	-								-					-	-
	Pentanes \$C/m³	\$384.87	\$ 444.94	\$ 489.03	\$ 532.28	\$ 563.17	\$ 591.74	\$ 617.08	\$ 637.19	\$ 651.93	\$ 663.06	\$ 674.47	\$ 687.96	\$ 701.72	\$ 715.76	\$ 730.0
	LPG \$C/m ³	\$118.09	\$ 153.04	\$ 185.75	\$ 209.55	\$ 223.57	\$ 233.95	5 \$ 244.45	\$ 252.00	\$ 256.67	\$ 260.99	\$ 265.77	\$ 271.09	\$ 276.51	\$ 282.04	\$ 287.6
sked Oil Produc	tion m ³ from all wells from Project	:														
sked Gas Produ	ction e ³ m ³ from all wells from Project		300000	285000	20000	150000	12000	0 10000	85000	75000	65000	60000	55000	50000	45000	400
sked Pentanes/	Condensate Production m ³ from a	II)	12000	12000	9000	7000	500	0 4500	3000	2500	2200	2000	1800	1600	1400	12
sked LPG Produc	tion m ³ from all wells		3500	3500	2700	2000	150	0 130	900	800	750	700	600	550	500	4
	Gross Royali	v:	\$7,000,000	\$8,500,000	\$7,500,000	\$6,000,000	\$5.000.00	0 \$4,500,000	\$3,500,000	\$3,000,000	\$2,500,000	\$2,000,000	\$1,800,000	\$1,500,000	\$1,250,000	\$100.0
oyalty Credits:																
	- Deep Well Royalty Credi - Infrastructure Royalty Cred		\$15,000,000													
			\$2,000,000													
let Royalty		S -	-\$10,500,000	\$8,500,000	\$7,500,000	\$6,000,000	\$5,000,00	0 \$4,500,000	\$3,500,000	\$3,000,000	\$2,500,000	\$2,000,000	\$1,800,000	\$1,500,000	\$1,250,000	\$100,0
umulative Net F	Royalty		-\$10,500,000	-\$2,000,000	\$5,500,000	\$11,500,000	\$16,500,00	0 \$21,000,000	\$24,500,000	\$27,500,000	\$30,000,000	\$32,000,000	\$33,800,000	\$35,300,000	\$36,550,000	\$36,650,0
Instruct	ions for the Annual Productio	on and An	nual Royalt	v Estimate	Workshee	et										
	15:S15 please enter the annual oil proc															
* In cells Er	7:S17 please enter the annual gas pr	oduction in e	³ m ³ for all wells	s attributable t	o this project	(if applicable)										
* In cells Er	19:S19 please enter the annual Pentan	es+ and con	densate produ	ction in m ³ for	all wells attri	butable to this	project (if ap	oplicable)								
* In cells E2	21:S21 please enter the annual LPG pr	oduction in n	n ³ for all wells a	attributable to	this project (i	f applicable)										